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Written by: Philip Hazel
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1.3 p11-kit 0.20.7 1

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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 (martintauwhmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

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

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 3.1, 31 March 2009

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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:

The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@end enumerate

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

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

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

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

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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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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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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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
machine-readable source code for the Library including whatever
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Sections 1 and 2 above); and, if the work is an executable linked
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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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1.5 protobuf 3.5.2-r0

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* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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

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* HPUX support.

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* Fixes for Solaris 10 32/64-bit confusion.

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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

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* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

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1.9 libassuan 2.4.3 2
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That's all there is to it!
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libassuan
Upstream-Contact: Werner Koch <wk@gnupg.org>

Files: *
Makefile.am
src/Makefile.am
src/assuan-buffer.c
src/assuan-error.c
src/assuan-inquire.c
src/assuan-io.c
src/assuan-listen.c
src/assuan-pipe-server.c
src/assuan-socket-connect.c
src/assuan-socket-server.c
src/assuan-socket.c
src/assuan-uds.c
src/client.c
src/context.c
src/funopen.c
src/memrchr.c
src/posix-fd-t-inc.h
src/posix-includes.inc.h
src/posix-sock nonce.inc.h
src/posix-sys-pth-impl.h
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src/libassuan.vers
tests/version.c
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m4/libtool.m4
build-aux/missing
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       src/debug.c
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       src/versioninfo.rc.in
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1.10 vim 7.4.629 6.el7

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(XPM - X PixMap format version 2 & 3)
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Surface Mail:       Arnaud LE HORS, INRIA - Sophia Antipolis,
                    2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" 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

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif 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
Some of the attributes covered by attUnquotString and attQuotString:
- architecture
category_tag
control_directory
copyright
create_date
description
directory
date_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.

- psfAttUnquotString
- psfAttQuotString
- psfAttTag
- psfAttSpec
- psfAttTags
- psfAttNumber
- psfAttTime
- psfAttFloat
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+\" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s\+\" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s\+\" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*(is_kernel|is_locatable|is_locatable|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s\+\" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject  Statement
HiLink psfAttrib  Type
HiLink psfQuotString  String
HiLink psfObjTag  Identifier
HiLink psfAttAbbrev  PreProc
HiLink psfObjTags  Identifier

HiLink psfComment  Comment

delcommand HiLink
endif

" 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"
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/

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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
Germany: It is possible to make donations that allow for a tax return. Check the ICCF website 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:
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IBAN: NL95 INGB 0004 5487 74
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1.11 libssh 1.9.0-r1

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1.12 lua 5.1.4 15.el7

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

(end of COPYRIGHT)

1.13 libsemanage 2.5 14.el7

1.13.1 Available under license :
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Version 2.1, February 1999

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**1.14 alpine-baselayot 3.0.5-r3**

**1.15 e2fsprogs 1.43.4 2+deb9u1**

1.15.1 Available under license:

```
# 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)
```

---

Open Source Used In cnBR 20.2-06042020 363
$(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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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

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

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1.16 debianutils 4.8.1.1

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

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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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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.)

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.

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

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@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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That's all there is to it!

1.20 xz 5.2.2 1.3
1.20.1 Available under license :

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

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Section 6 states terms for distribution of such executables.

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1.21 nss 3.35-2ubuntu2.7

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  include/bsd/sys/endian.h
  man/expand_number.3
  man/closefrom.3
  man/flopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
src/hash/sha512c.c
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man/readpassphrase.3
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src/arc4random_unix.h
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</body>  
</html>
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*************************************************************************/
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    Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
1.37 zt-exec 1.10

1.38 libapache2-mod-authnz-external 3.3.2-0.1

1.39 curl 7.29.0 54.el7

1.39.1 Available under license:

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include/bsd/netinet/ip_icmp.h
include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strlen.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
src/merge.c
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src/setmode.c
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man/humanize_number.3
man/stringlist.3
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man/closefrom.3
man/flopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
src/hash/sha512c.c
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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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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 from 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.

Author: Julio Merino <jmmv84@gmail.com>

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

<xsl:variable name="isc.copyright.text"><xsl:text>
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1.51 libuv 1.15.0

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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

#endif /* UV_BSD_H */

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AES in libhcrypto
rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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@heading Richard Outerbridge

DES core in libhcrypto

@verbatim

D3DES (V5.09) -

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

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

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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@copynext

@heading Secure Endpoints Inc

Windows support

@verbatim

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lib/hcrypto/test_dh.c

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1.58 libasyncns 0.8
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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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2.1.1  2.1+2.0.1  2001  PSF  yes
2.1.2  2.1.1  2002  PSF  yes
2.1.3  2.1.2  2002  PSF  yes
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  jar/org/locationtech/spatial4j/io/ShapeIO.java
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  jar/org/locationtech/spatial4j/io/ShapeReader.java
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  jar/org/locationtech/spatial4j/io/WKTWriter.java
* /opt/ws_local/PERMITS_SQL/1018362592_1591321363.2/0/spatial4j-0-7-sources-
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import com.fasterxml.jackson.core.Version;
import com.fasterxml.jackson.core.Versioned;
import com.fasterxml.jackson.core.util.VersionUtil;

/**
 * Automatically generated from PackageVersion.java.in during
 * packageVersion-generate execution of maven-replacer-plugin in
 * pom.xml.
 */
public final class PackageVersion implements Versioned {
    public final static Version VERSION = VersionUtil.parseVersion("@projectversion@", "@projectgroupid@", "@projectartifactid@");

    @Override
    public Version version() {
        return VERSION;
    }
}

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* /opt/ws_local/PERMITS_SQL/1018362592_1591321363.2/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/context/jts/DatelineRule.java
* /opt/ws_local/PERMITS_SQL/1018362592_1591321363.2/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/shape/impl/Range.java
* /opt/ws_local/PERMITS_SQL/1018362592_1591321363.2/0/spatial4j-0-7-sources-jar/org/locationtech/spatial4j/shape/impl/BufferedLineString.java
1.80 e2fsprogs 1.44.2-r2
1.80.1 Available under license:

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): $(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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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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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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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)
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1.82 librdkafka 0.11.4-r1

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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
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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.

Author: Julio Merino <jmmv84@gmail.com>

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

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.105 python-click 6.6-1

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1.106 scowl 2017.08.24-1

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.
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package, and uppercase words in at least 4 of the previous 12
dictionaries. A decent number of proper names is also included: The
top 1000 male, female, and Last names from the 1990 Census report; a
list of names sent to me by Alan Beale; and a few names that I added
myself. Finally a small list of abbreviations not commonly found in
other word lists is included.

The name files form the Census report is a government document which I
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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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
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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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!
1.117 fdisk 2.27.0

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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
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
2d8e8d851a88a045db233418dd73fbd 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
Create default BSD
2e1ceed529cb59ec9341afe0443f196a1 bsd.img

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):

b5c1c121c2091b2ff26b880551fde007112 bsd.img

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

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1.118 cyrus-sasl 2.1.27-~101-g0780600+dfsg
3ubuntu2

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 * Rob Siemborski
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   version 1.2.11, January 15th, 2017

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1.120 eclipse-core-filesystem 1.3.100

1.121 libtasn 4.14-r0

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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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1.126 keyutils 1.5.9-8ubuntu1

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1.127 jackson-datatype-jdk8 2.9.10

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1.128 jansson 2.12-r0

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1.129 jetty-util 9.2.24.v20180105

1.130 libfontenc 1.1.3-3.el7

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1.131 util-linux 2.31.1-0.4ubuntu3.6

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* Detect unordered_map in stl_hash.m4.

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

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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It is currently maintained by Anibal Monsalve Salazar <anibal@debian.org>.

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1.138  bouncycastle-fips 1.0.1

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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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<td>1991-1995</td>
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<td>PSF</td>
<td>yes</td>
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1.143 jetty-io 9.2.24.v20180105

1.144 libdevmapper 2.02.178-r0
1.144.1 Available under license:

    # Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
    # Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
    pkgname=py-flake8-copyright
    _pkgname=flake8-copyright
    pkgver=0.2.0
    pkgrel=1
    pkgdesc="Extension for flake8 which checks for copyrights"
    url="https://github.com/savoirfairelinux/flake8-copyright"
    arch="noarch"
    license="MIT"
    depends="flake8"
    makedepends="python3-dev"
    source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
    builddir="$srcdir/${_pkgname}-${pkgver}

    build() {
        cd "$builddir"
        python3 setup.py build || return 1
    }

    package() {
        cd "$builddir"
        python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
    }

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    # Automatically generated by apkbuild-cpan, template 1
    # Contributor: Valery Kartel <valery.kartel@gmail.com>
    # Maintainer: Valery Kartel <valery.kartel@gmail.com>
    pkgname=perl-bsd-resource
    _pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/
arch="all"
license="GPL PerlArtistic"

cpandepends=""
cpanmakedepends=""
depends="cpandepends"
makedepends="perl-dev $cpandepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
    default_prepare

cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make
}

check() {
    cd "$builddir"
    make test
}

package() {
    cd "$builddir"
make DESTDIR="$pkgdir" install
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb6b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f6b3b8065ba65f4eaf16de9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
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options="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"

subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
    subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
cd "$builddir"
}

package() {
mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"
mkdir -p "$subpkgdir/usr/share/spdx"
cp -r "$builddir/$type"/usr/share/spdx/
}

list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir/usr/share/spdx"
local i; for i in $builddir/text/*.txt; do
    ...
local license=${i##*/}
echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="a07a6be891296ce032962aa33fe03bf0e49f5d378b2445d3e3eb27b3a6288695eeea0baec81976c65219
a25339d65944db6fc1127b8d334fc44f0bbaa90a1574 LICENSE-list-data-3.1.tar.gz"

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1.145 apache-log4j 2.11.1

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1.146 jetty-security 9.4.18.v20190429

1.147 xml-apis 1.4.01
1.147.1 Available under license:

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David Megginson, david@megginson.com
2000-05-05

1.148 coreutils 8.22 24.el7

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E)  
(E)->fts_info == FTS_D  
|| (E)->fts_info == FTS_DC  
|| (E)->fts_info == FTS_DP  
|| (E)->fts_info == FTS_DNR

enum RCH_status
{
 /* we called fchown and close, and both succeeded */
 RC_ok = 2,

 /* required_uid and/or required_gid are specified, but don't match */
 RC_excluded,

 /* SAME_INODE check failed */
 RC_inode_changed,

 /* open/fchown isn't needed, isn't safe, or doesn't work due to permissions problems; fall back on chown */
 RC_do_ordinary_chown,

 /* open, fstat, fchown, or close failed */
 RC_error
};
extern void
chopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symlink_referent = true;
    chopt->recurse = false;
    chopt->force_silent = false;
    chopt->user_name = NULL;
    chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name.
       They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding group name, use the decimal
   representation of the ID. */

extern char *
gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
     : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
     : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding user name, use the decimal
   representation of the ID. */

extern char *
uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name
     : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
     : umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */

static char *
user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
    {
        if (group)
        {
            spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
            stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
        }
        else
        {
            spec = xstrdup (user);
        }
    } else if (group)
    {
        spec = xstrdup (group);
    }

    return spec;
}

/* Tell the user how/if the user and group of FILE have been changed.
   If USER is NULL, give the group-oriented messages.
   CHANGED describes what (if anything) has happened. */

static void
describe_change (const char *file, enum Change_status changed,
    char const *old_user, char const *old_group,
    char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf ("neither symbolic link %s nor referent has been changed\n"),
            quote (file));
        return;
    }

    spec = user_group_str (user, group);
old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

switch (changed)
{
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
            : group ? _("changed group of %s from %s to %s\n")
            : _("no change to ownership of %s\n");
        break;
    case CH_FAILED:
        if (old_spec)
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                : group ? _("failed to change group of %s from %s to %s\n")
                : _("failed to change ownership of %s\n");
        else
            fmt = (user ? _("failed to change ownership of %s to %s\n")
                : group ? _("failed to change group of %s to %s\n")
                : _("failed to change ownership of %s\n");
        free (old_spec);
        old_spec = spec;
        spec = NULL;
        break;
    case CH_NO_CHANGE_REQUESTED:
        fmt = (user ? _("ownership of %s retained as %s\n")
            : group ? _("group of %s retained as %s\n")
            : _("ownership of %s retained\n");
        break;
    default:
        abort ();
    }

    printf (fmt, quote (file), old_spec, spec);
    free (old_spec);
    free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor. We first call fstat and verify that the dev/inode match those from the preceding stat call, and only then, if appropriate (given the required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a special file that might have undesirable side effects when opening. In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
                 struct stat const *orig_st,
                 uid_t uid, gid_t gid,
                 uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (! S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }

    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd
          || (errno == EACCES && S_ISREG (orig_st->st_mode)
              && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (! SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
              && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {
        if (fchown (fd, uid, gid) == 0)
        {
            return RC_ok;
        }
    }

    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd
          || (errno == EACCES && S_ISREG (orig_st->st_mode)
              && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (! SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
              && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {
        if (fchown (fd, uid, gid) == 0)
        {
            return RC_ok;
        }
    }
status = (close (fd) == 0
    ? RC_ok : RC_error);
return status;
} else {
    status = RC_error;
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
    case FTS_D:
        if (chopt->recurse)
        {
            if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
            {
                /* This happens e.g., with "chown -R --preserve-root 0 /"
                 and with "chown -RH --preserve-root 0 symlink-to-root". */
                ROOT_DEV_INO_WARN (file_full_name);
                /* Tell fts not to traverse into this hierarchy. */
                fts_set (fts, ent, FTS_SKIP);
/* Ensure that we do not process "/" on the second visit. */
ignore_value (fts_read (fts));
    return false;
}
    return true;
}
break;

case FTS_DP:
    if (! chopt->recurse)
        return true;
    break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
     indicator is determined at the time of the initial fts_open call.
     With programs like chmod, chown, and chgrp, that modify
     permissions, it is possible that the file in question is
     accessible when control reaches this point. So, if this is
     the first time we've seen the FTS_NS for this file, tell
     fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
    {
        ent->fts_number = 1;
        fts_set (fts, ent, FTS_AGAIN);
        return true;
    }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot access %s"),
                quote (file_full_name));
    ok = false;
    break;

case FTS_ERR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, "%s", quote (file_full_name));
    ok = false;
    break;

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
                quote (file_full_name));
    ok = false;
    break;

case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
{ emit_cycle_warning (file_full_name); return false; }
break;

default:
break;
}

if (!ok)
{
do_chown = false;
file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1 &&
chopt->verbosity == V_off && ! chopt->root_dev_ino &&
! chopt->affect_symlink_referent)
{
do_chown = true;
file_stats = ent->fts_statp;
}
else
{
file_stats = ent->fts_statp;

/* If this is a symlink and we're dereferencing them,
stat it to get info on the referent. */
if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
{
if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
{
if (! chopt->force_silent)
error (0, errno, _("cannot dereference %s"),
quote (file_full_name));
ok = false;
}

file_stats = &stat_buf;
}

do_chown = (ok && (required_uid == (uid_t) -1
|| required_uid == file_stats->st_uid)
&& (required_gid == (gid_t) -1
|| required_gid == file_stats->st_gid));
/* This happens when chown -LR --preserve-root encounters a symlink-to-/.*
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
         * this behavior for top-level symbolic links with -h, and
         * implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
         * (-h) --no-dereference option. If fts's stat call determined
         * that the uid/gid of FILE matched the --from=O:G-selected
         * owner and group IDs, blindly using chown(2) here could lead
         * chown(1) or chgrp(1) mistakenly to dereference a *symlink*
         * to an arbitrary file that an attacker had moved into the
         * place of FILE during the window between the stat and
         * chown(2) calls. If FILE is a regular file or a directory
         * that can be opened, this race condition can be avoided safely. */

        enum RCH_status err
                = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                                    required_uid, required_gid);
        switch (err)
        {
            case RC_ok:
                break;
                
            case RC_do_ordinary_chown:
                ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
                break;

case RC_error:
ok = false;
break;
case RC_inode_changed:
/* FIXME: give a diagnostic in this case? */
case RC_excluded:
do_chown = false;
ok = false;
break;
default:
abort ();
}
}
/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */
if (do_chown && !ok && ! chopt->force_silent)
error (0, errno, (uid != (uid_t) -1
? _("changing ownership of %s")
: _("changing group of %s")),
quote (file_full_name));
}
if (chopt->verbosity != V_off)
{
bool changed =
((do_chown && ok && symlink_changed)
&& ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
&& (gid == (gid_t) -1 || gid == file_stats->st_gid)));
if (changed || chopt->verbosity == V_high)
{
enum Change_status ch_status =
(!ok ? CH_FAILED
: !symlink_changed ? CH_NOT_APPLIED
: !changed ? CH_NO_CHANGE_REQUESTED
: CH_SUCCEEDED);
char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
describe_change (file_full_name, ch_status,

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old_usr, old_grp,
    chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
}
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
   BIT_FLAGS specifies how to treat each symlink-to-directory
   that is encountered during a recursive traversal.
   CHOPT specifies additional options.
   If UID is not -1, then change the owner id of each file to UID.
   If GID is not -1, then change the group id of each file to GID.
   If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
   files with user ID and group ID that match the non-(-1) value(s).
   Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
              uid_t uid, gid_t gid,
              uid_t required_uid, gid_t required_gid,
              struct Chown_option const *chopt)
{
    bool ok = true;

    /* Use lstat and stat only if they're needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
                      || chopt->affect_symlink_referent
                      || chopt->verbosity != V_off)
                      ? 0 : FTS_NOSTAT);

    FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

    while (1)
    {
        FTSENT *ent;

        ent = fts_read (fts);
        if (ent == NULL)
        {
            if (errno != 0)
            {
            // Code continues here...
/* FIXME: try to give a better message */
if (! chopt->force_silent)
    error (0, errno, _("fts_read failed"));
ok = false;
}
break;

ok &= change_file_owner (fts, ent, uid, gid,
    required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0)
{
    error (0, errno, _("fts_close failed"));
    ok = false;
}

return ok;
}

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1.150 e2fsprogs 1.42.12-2+b1

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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 "INSTALLPROGRAM $(BSDLIB_INSTALL_DIR)/$(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)
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The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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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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Gadi Oxman, August 1995

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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
Ty Coon, President of Vice

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1.151 procps 3.3.10 26.el7

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.167 ohc-core-j8 0.4.4

1.168 masterminds-semver 1.4.2

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1.169 go-runewidth 3.2.17+dfsg-1

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1.170 netbsd-resolv 1.47

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* Theo de Raadt <deraadt@openbsd.org> came up with the idea of using
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  1dc9e472e19acfe6dc7f41e429236e7eef7ceda1-libc-netbsd-resolv-zip/bionic-
  1dc9e472e19acfe6dc7f41e429236e7eef7ceda1-libc-netbsd-resolv/__res_send.c
* /opt/ws_local/PERMITS_SQL/1049871717_1591824386.65/0/bionic-
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1.171 openssl 1.1.1-1ubuntu2.1~18.04.6

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1.174 ohc-core 0.4.4

1.175 libressl 2.7.5-r0

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1.176 mime-support 3.60

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Source: git://anonscm.debian.org/collab-maint/mime-support.git

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1.177 alpine-baselayout 3.2.0-r3
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1.178 binutils 2.30-21ubuntu1~18.04.3

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's 
opcodes always produced fixed-size instructions (e.g. jsr), while 
synthetic instructions remained shrinkable (jbsr). John fixed many 
bugs, including true tested cross-compilation support, and one bug in 
relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If 
you've contributed significant work and are not mentioned on this list, and
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That's all there is to it!

1.179 gettext 2.27 3ubuntu1
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent 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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   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.

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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
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during execution displays copyright notices, you must include the
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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:

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

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

 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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 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 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.)

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

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@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.
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Open Source Used In cnBR 20.2-06042020 1981
gz/Algorithm-Diff-XS-0.04/META.yml
No license file was found, but licenses were detected in source scan.

/*
-------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.06_01

Automatically created by Devel::PPPort running under

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported  list unsupported API
--api-info=name    show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only up to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn’t been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier versions of Perl, and that can’t be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions, you want either C<static> or global variants.

For a C<static> function, use:

    #define NEED_function

For a global function, use:

    #define NEED_function_GLOBAL

Note that you mustn't have more than one global request for one function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro. Just C/#define the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpn> function, use:

perl ppport.h --api-info=newSVpn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,

1
filter => 1;

my($ppport) = $0 =~ /\[(\w\.)\]+$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '[: \t]'; # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! hints! changes! cplusplus
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;  
    die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: '$opt{compat-version}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{compat-version}'\n" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

# Never use C comments in this file!!!!!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
my %API = map { /^\w+\||[^|]*\|[^|]*\|\w+$/ ? ( $1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
};
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()).

: die "invalid spec: $_" } qw(
AvFILLp[5.004050]|p
AvFILL||
CLASS||n
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV[5.006000]|p
CopFILEGV_set[5.006000]|p
CopFILEGV[5.006000]|p
CopFILESV[5.006000]|p
CopFILE_set[5.006000]|p
CopFILE[5.006000]|p
CopSTASHPV_set[5.006000]|p
CopSTASHPV[5.006000]|p
CopSTASH_eq[5.006000]|p
CopSTASH_set[5.006000]|p
CopSTASH[5.006000]|p
CopyD[5.009002]|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV[5.004050]|p
END_EXTERN_C[5.005000]|p
ENTER||
ERRSV[5.004050]|p
EXTEND||
EXTERN_C[5.005000]|p
FREETMPS||
GIMME_V[5.004000]|n
GIMME||n
GROK_NUMERIC_RADIX[5.007002]|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_NOARGS||
G_SCALAR||
G_VOID[5.004000]
GetVars||
GvSV||
Gv_AMupdate||
HEf_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force|5.004000|
HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeVAL|5.004000|
HvNAME||
INT2PTR|5.006000|
IN_LOCALE_COMPILETIME|5.007002|
IN_LOCALE_RUNTIME|5.007002|
IN_LOCALE|5.007002|
IN_PERL_COMPILETIME|5.008001|
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002|
IS_NUMBER_INFINITY|5.007002|
IS_NUMBER_IN_UV|5.007002|
IS_NUMBER_NAN|5.007003|
IS_NUMBER_NEG|5.007002|
IS_NUMBER_NOT_INT|5.007002|
IVSIZE|5.006000|
IVTYPE|5.006000|
IVdf|5.006000|
LEAVE||
LVRET||
MARK||
MY_CXT_CLONE|5.009002|
MY_CXT_INIT|5.007003|
MY_CXT|5.007003|
MoveD|5.009002|
Move||
NEWSV||
NOOP|5.005000|
NUM2PTR|5.006000|
NVTYPE|5.006000|
NVef|5.006001|
NVrf|5.006001|
NVgf|5.006001|
Newc||
Newz||
New||
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV||
PAD_CLONE_VARS||
PAD_COMPNAME_FLAGS||
PAD_COMPNAME_GEN_set||
PAD_COMPNAME_GEN||
PERL_BCDVERSION|5.009003|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001|p
PERL_INT_MAX|5.004000|p
PERL_INT_MIN|5.004000|p
PERL_LONG_MAX|5.004000|p
PERL_LONG_MIN|5.004000|p
PERL_MAGIC_arylen|5.007002|p
PERL_MAGIC_backref|5.007002|p
PERL_MAGIC_bm|5.007002|p
PERL_MAGIC_collxfrm|5.007002|p
PERL_MAGIC_dbfile|5.007002|p
PERL_MAGIC_dbline|5.007002|p
PERL_MAGIC_defelem|5.007002|p
PERL_MAGIC_envelem|5.007002|p
PERL_MAGIC_env|5.007002|p
PERL_MAGIC_ext|5.007002|p
PERL_MAGIC_fm|5.007002|p
PERL_MAGIC_glob|5.007002|p
PERL_MAGIC_isaelem|5.007002|p
PERL_MAGIC_isa|5.007002|p
PERL_MAGIC_mutex|5.007002|p
PERL_MAGIC_nkeys|5.007002|p
PERL_MAGIC_overload_elem|5.007002|p
PERL_MAGIC_overload_table|5.007002|p
PERL_MAGIC_overload|5.007002|p
PERL_MAGIC_pos|5.007002|p
PERL_MAGIC_qr|5.007002|p
PERL_MAGIC_regdata|5.007002|p
PERL_MAGIC_regdatum|5.007002|p
PERL_MAGIC_regex_global|5.007002|p
PERL_MAGIC_shared_scalar|5.007003|p
PERL_MAGIC_shared|5.007003|p
PERL_MAGIC_sigelem|5.007002|p
PERL_MAGIC_sig|5.007002|p
PERL_MAGIC_substr|5.007002|p
PERL_MAGIC_sv|5.007002|p
PERL_MAGIC_taint|5.007002|p
PL_na[5.004050]pn
PL_no_modify[5.006000]p
PL_ofs_sv
PL_perl_destruct_level[5.004050]p
PL_perldb[5.004050]p
PL_ppade[5.006000]p
PL_rsfp_filters[5.004050]p
PL_rsf[5.004050]p
PL_rs
PL_stack_base[5.004050]p
PL_stack_sp[5.004050]p
PL_stdingv[5.004050]p
PL_sv_arenaroot[5.004050]p
PL_sv_no[5.004050]pn
PL_sv_undef[5.004050]pn
PL_sv_yes[5.004050]pn
PL_tainted[5.004050]p
PL_tainting[5.004050]p
POPi
POPl
POPn
POPphytex[5.007001]n
POPpx[5.005030]n
POPp
POP
PUSHMARK
PUSHi
PUSHmortal[5.009002]p
PUSHn
PUSHp
PUSHs
PUSHu[5.004000]p
PUTBACK
PerlIO_clearerr[5.007003]
PerlIO_close[5.007003]
PerlIO_eof[5.007003]
PerlIO_error[5.007003]
PerlIO_fileno[5.007003]
PerlIO_fill[5.007003]
PerlIO_flush[5.007003]
PerlIO_get_base[5.007003]
PerlIO_get_bufsiz[5.007003]
PerlIO_get_cnt[5.007003]
PerlIO_get_ptr[5.007003]
PerlIO_read[5.007003]
PerlIO_seek[5.007003]
PerlIO_set_cnt[5.007003]
PerlIO_set_ptrcnt[5.007003]
PerlIO_setlinebuf[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stdin[5.007003]
PerlIO_stdout[5.007003]
PerlIO_tell[5.007003]
PerlIO_unread[5.007003]
PerlIO_write[5.007003]
Poison[5.008000]

RETVAL[5.007003]

Renewc[5.007003]

SAVECLEARSV[5.007003]
SAVECOMPPAD[5.007003]
SAVEPADSV[5.007003]
SAVETMPS[5.007003]
SAVE_DEF$[5.004050]

SPAGAIN[5.007003]
SP[5.007003]
START_EXTERN_C[5.005000]
START_MY_CXT[5.007003]
STMT_END[5.007003]
STMT_START[5.007003]
ST[5.007003]

SVt_IV[5.007003]
SVt_NV[5.007003]
SVt_PVAV[5.007003]
SVt_PVCV[5.007003]
SVt_PVHV[5.007003]
SVt_PVMG[5.007003]

Safefree[5.007003]
Slab_Alloc[5.007003]
Slab_Free[5.007003]
StructCopy[5.007003]
SvCUR_set[5.007003]
SvCUR[5.007003]
SvEND[5.007003]
SvGETMAGIC[5.004050]
SvGROW[5.007003]
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_of[5.007003]
SvIOK_only_UV[5.006000]
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx||
SvPV||
SvREFCNT_dec||
SvREFCNT_inc||
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set|5.009003|
SvRV||
SvSETMAGIC||
SvSHARE|5.007003|
SvSTASH_set|5.009003|
SvSTASH||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT||
SvTRUE||
SvTYPE||
SvUNLOCK|5.007003|
SvUOK|5.007001|
SvUOK||
SvUTF8_ofr|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000||p
SvUVX|5.004000||p
SvUVX_nomg|5.009001||p
SvUV_set|5.009003|
SvUVx|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
THIS||n
UNDERBAR|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVXf|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
UVxf|5.006000||p
asIV||
asUV||
atfork_lock||[5.007003]|n
atfork_unlock||[5.007003]|n
av_arylen_p||[5.009003]
av_clear||
av_delete|[5.006000]
av_exists|[5.006000]
av_extend||
av_fake||
av_fetch||
av_fill||
av_len||
av_make||
av_pop||
av_push||
av_reify||
av_shift||
av_store||
av_undef||
av_unshift||
ax||n
bad_type||
bind_match||
block_end||
block_gimme|[5.004000]
block_start||
boolSV|[5.004000]|p
boot_core_PerlIO||
boot_core_UNIVERSAL||
boot_core_xsutils||
bytes_from_utf8|[5.007001]
bytes_to_utf8|[5.006001]
cache_re||
call_argv|[5.006000]|p
call_atexit|[5.006000]
call_body||
call_list_body||
call_list|[5.004000]
call_method|[5.006000]|p
call_pv|[5.006000]|p
call_sv|[5.006000]|p
calloc|[5.007002]|n
cando||
cast_i32|[5.006000]
cast_iv|[5.006000]
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cast_uv|[5.006000]
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";

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}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base.\n";
$info++;
}
if ($API{$f}{provided}) {
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.\n";
print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
print "$hints{$f}" if exists $hints{$f};
$info++;
}
unless ($info) {
print "No portability information available.\n";
}
$count++;
}
if ($count > 0) {
print "\n";
}

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else {
print "Found no API matching '$opt{'api-info'}'.\n";
}
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}

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if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
    ", join "\n    ", @out);
}
@files = @in;

unless (@files) {
    die "No input files given!\n    ";
}

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n    ";
        next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
        (?<='[^'\*][^'\*]*[^'\*]*
        | (?<='[^'\*][^'\*]*[^'\*]')
        | (?<='[^'\*][^'\*]*[^'\*]')
        | (?<='[^'\*][^'\*]*[^'\*]')
        | (?<='[^'\*][^'\*]*[^'\*]'[^'\*]')
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        | (?<='[^'\*][^'\*]*[^'\*]'[^'\*]'[^'\*]'[^'\*]'[^'\*]'[^'\*]'[^'\*]')
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$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "\$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab\$?:Perl\_\?$match\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
                for ($func, @deps) {
                    if (exists $need{$_}) {
                        $file{needs}{$_} = 'static';
                    }
                }
            }
        } else {
            warning("Possibly wrong #define $1 in $filename");
        }
    } else {
        if (exists $API{$func}{todo} & $API{$func}{todo} > $opt{compat-version}) {
            if ($c =~ /Ab$func\b/) {
                $file{uses_todo}{$func}++;
            }
        } else {
            warning("Possibly wrong #define $1 in $filename");
        }
    }
}

while ($c =~ /\*\*SHS*\#SHS*defineSHS+(\QNEED\Q\_\?(w+?)\Q_GLOBAL\Q)\b/mg) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else {
        warning("Possibly wrong #define $1 in $filename");
    }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}

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for $func (sort keys %{$file{uses_replace}}) {  
    warning("Uses $func instead of $replace{$func}");  
    $file{changes} += ($c =~ s/b$func\b/sreplace{$func}/g);  
}

for $func (sort keys %{$file{uses}}) {  
    next unless $file{uses}[$func];  # if it's only a dependency  
    if (exists $file{uses_deps}{$func}) {  
        diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));  
    }  
    elsif (exists $replace{$func}) {  
        warning("Uses $func instead of $replace{$func}");  
        $file{changes} += ($c =~ s/b$func\b/sreplace{$func}/g);  
    }  
    else {  
        diag("Uses $func");  
    }  
    hint($func);  
}

for $func (sort keys %{$file{uses_todo}}) {  
    warning("Uses $func, which may not be portable below perl ",  
        format_version($API{$func}{todo}));  
}

for $func (sort keys %{$file{needed_static}}) {  
    my $message = ";  
    if (not exists $file{uses}[$func]) {  
        $message = "No need to define NEED_$func if $func is never used";  
    }  
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {  
        $message = "No need to define NEED_$func when already needed globally";  
    }  
    if ($message) {  
        diag($message);  
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);  
    }  
}

for $func (sort keys %{$file{needed_global}}) {  
    my $message = ";  
    if (not exists $global{uses}{$func}) {  
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";  
    }  
    elsif (exists $file{needs}{$func}) {  
        if ($file{needs}{$func} eq 'extern') {  


$message = "No need to define NEED_$func_GLOBAL when already needed globally"
;
} elsif ($file{needs}{$func} eq 'static') {
    $message = "No need to define NEED_$func_GLOBAL when only used in this file"
;
} if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func_GLOBAL\b.*$LF//mg);
}

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ";

        unless (exists $file{needed_$type}{$func}) {
            if ($type eq 'global') {
                diag("Files @{$global{needs}{$func}} need $func, adding global request")
;
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n"
;
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
;
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1\$pp/ms) || ($c =~ s/^(?!$HS*#$HS*include.*\Q$ppport\E)/$pp/m) || ($c =~ s/^(?!$HS*#$HS*include.*XSUB.*\s*/$1\$pp/m) || ($c =~ s/^/$pp/);
else {
    if ($file{has-inc-ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = ($cppc != 1 ? 's' : '');
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                my $macrofile = "$filename$opt{patch}";
                if (-e $macrofile) {
                    error("'$macrofile' already exists, refusing to write copy of '$filename'");
                } else {
                    local *F,
                    if (open F, ">$macrofile") {
                        info("Writing copy of '$filename' with changes to '$macrofile'");
                        print F $c;
                        close F;
                    } else {
                        error("Cannot open '$macrofile' for writing: $!");
                    }
                }
            }
        }
        if (exists $opt{copy}) {
            my $newfile = "$filename$opt{copy}";
            if (-e $newfile) {
                error("'$newfile' already exists, refusing to write copy of '$filename'");
            } else {
                local *F;
                if (open F, ">$newfile") {
                    info("Writing copy of '$filename' with changes to '$newfile'");
                    print F $c;
                    close F;
                } else {
                    error("Cannot open '$newfile' for writing: $!");
                }
            }
        }
    }
}
if (open PATCH, "$opt{patch}") {
    $patch_opened = 1;
} else {
    error("Cannot open '$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
    }
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff {
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    } else {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = "--- $file
+++ $file.patched
" . $diff;
    }
    $diff
    +++ $file.patched

    --- $file
    +++ $file.patched
if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp ") { 
            while (<F>) { 
                s/\Q$_tmp\E/$file.patched/;
                $diff.= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

    unlink $tmp;
    } else {

error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub can_use
{
  eval "use @_;";
  return $@ eq ";
}

sub rec_depend
{
  my $func = shift;
  my %seen;
  return () unless exists $depends{$func};
  grep !seen($_)++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /(^)(\d+)(\d+)(\d+)/) {
    return ($1, $2, $3);
  }

  elsif ($ver !~ /\d+\.[\d_]+$/) {
    die "cannot parse version '$_';
  }

  $ver =~ s/_//g;
  $ver =~ s/$/000000/;

  my($r,$v,$s) = $ver =~ /\d+/g;
  $r = int $r;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version '$_';
    }
  }

  return ($r, $v, $s);
}
sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \$ver\n";
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;
    }

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}
my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^X $0/;
    $usage =~ s/[A-Z]<([^>]+)>/$M{$1}$2$M{$1}/g;
    print <<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
    ENDUSAGE
    exit 2;
}

__DATA__
/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030465417_1591373593.69/0/libalgorithm-diff-xs-perl-0.04-orig-tar-gz/Algorithm-Diff-XS-0.04/qqport.h
No license file was found, but licenses were detected in source scan.

'GNU public license'             => 'gpl',    1,
'GNU lesser public license'     => 'gpl',    1,
'BSD license'                   => 'bsd',    1,
'proprietary'                   => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
    warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030465417_1591373593.69/0/libalgorithm-diff-xs-perl-0.04-orig-tar-
No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent
but not very well-known L<Algorithm::LCS> with a drop-in interface
that simply re-uses the installed version of the L<Algorithm::Diff>
module.

Note that only the C<LCSidx> function is optimized in XS at the
moment, which means only C<compact_diff> will get significantly
faster for large data sets, while C<diff> and C<sdiff> will run
in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algorithm::Diff</td>
<td>14.7/s</td>
<td>--</td>
</tr>
<tr>
<td>Algorithm::Diff::XS</td>
<td>806/s</td>
<td>5402%</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, { 'Algorithm::Diff' => sub { Algorithm::Diff::compact_diff(@data) }, 'Algorithm::Diff::XS' => sub { Algorithm::Diff::XS::compact_diff(@data) } });

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS
Audrey Tang <lt>cpan@audreyt.org<gt>

=head1 COPYRIGHT

Copyright 2008 by Audrey Tang <lt>cpan@audreyt.org<gt>.

Contains derived code copyrighted 2003 by Joe Schaefer,
E<lt>joe+cpan@sunstarsys.com<gt>.

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=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030465417_1591373593.69/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

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under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030465417_1591373593.69/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/README

1.181 gmp 6.1.2+dfsg 1
1.181.1 Available under license :

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regexec.c::
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enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
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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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missing/procstat_vm.c:

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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $  

vsnprintf.c:

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missing/isinf.c::
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missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date strftime.c::
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L. Peter Deutsch
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```plaintext
>>> 
AUTHOR:: Antoon Bosselaers, ESAT-COSIC
       (Arranged for libc by Todd C. Miller)
DATE:: 1 March 1996

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The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
* committer

AKIYOSHI, Masamichi (akiyoshi)
* committer
* He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber
Minero Aoki (aamine)
* committer
* He is the maintainer of:
  * fileutils
  * net/http, net/https
  * net/pop
  * net/smtp
  * racc
  * ripper
  * strscan

Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.

Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Evan Brodie
* a patch for documentation of Float#round
Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer

Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* patches for rdoc
Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tdaf)
* committer
* 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

GOTOU, Kentaro (gotoken)  
* committer  
* He wrote benchmark.rb  
* He is the maintainer of:  
  * benchmark.rb  
  * open3

GOTOU, Yuuzou (gotoyuzo)  
* committer

James Edward Gray II (jeg2)  
* committer  
* He wrote the faster implementation of CSV and is the maintainer of csv.  
* Wrote documentation for rdoc

== H

Phil Hagelberg  
* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)  
* committer  
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji  
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro 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
Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * 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.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * c2mmap.rb
  * forwardable.rb
  * irb
  * matrn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* 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

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

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

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * 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 RXML, 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)
* committer
* 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

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
  * optparse
  * stringio
* io/wait
* iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputil

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz
Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* 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/lgamma.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

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* 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.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* 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

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer
Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.
Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c
William Webber (wew)  
* committer

Jim Weirich (jim)  
* committer  
* He wrote Rake.

Nathan Weizenbaum  
* fixed misc/ruby-mode.el.

why the lukky stiff (why)  
* committer  
* He is the maintainer of syck

Caley Woods  
* documentation

Gary Wright  
* documentation

== X

== Y

Akira Yamada (akira)  
* committer  
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi  
* patches for enum.c, parse.y  
* documentation

Hirokazu Yamamoto (ocean)  
* committer

Hirotaka Yoshioka  
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov  
* a patch for io.c

Alexander Zavorine  
* 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

Dan Zwell
* a patch for net/pop

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
except Errors.RepoMDError:
    continue # No metadata found for this repo

+        self.arch_storage = ArchStorage()
+        self.archlist = self.arch_storage.archlist
+
+    def get_notices(self, name=None):
+        """Return all notices. """
if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
     name = oldpkgtup[0]
     arch = oldpkgtup[1]
     ret = []
+    other_arch_list = []
+    notices = set()
     for notice in self.get_notices(name):
         for upkg in notice['pkglist']:
             for pkg in upkg['packages']:
+                other_arch = False
                 if pkg['name'] != name or pkg['arch'] != arch:
                     continue
-                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                else:
+                    if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                        other_arch = True
+                    else:
+                        continue
+                    ret.append((pkgtup, notice))
+                    if other_arch:
+                        other_arch_list.append((pkgtup, notice))
+                    else:
+                        ret.append((pkgtup, notice))
+                        notices.add(notice)
     for pkgtup, notice in other_arch_list:
         if notice not in notices:
             ret.append((pkgtup, notice))
     ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
     return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
 import logginglevels
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage


---
A single update notice (for instance, a security fix).

- def __init__(self, elem=None):
+ def __init__(self, elem=None, repoid=None, vlogger=None):
    self._md = {
        'from': '',
        'type': '',
    }
    if elem:
        self._parse(elem)
+
+ self._repoid = repoid
+ self._vlogger = vlogger
+
+ def __getitem__(self, item):
    
    """ Allows scriptable metadata access (ie: un['update_id']). """
    if type(item) is int:
        return un._repoid
    else:
        return '<unknown>'
+
+ def _rid(un):
+     if hasattr(un, '_repoid') and un._repoid is not None:
+         return un._repoid
+     else:
+         return '<unknown>'
+
+ def _log_failure(data):
+    
+    """Log the mismatched data similarly to conflict markers in git."""
+    if self._vlogger is None:
+        return
+    msg = _('Duplicate of %s differs in some fields:
')
+    msg += '%s
%r
+%r
' % (other._md[data], self._md[data])
+    msg += '%r
+%r
' % (other._md[data], self._md[data])
+    # --verbose mode enables this
+    self._vlogger.log(logginglevels.DEBUG_3, msg)
+
+    if not other or not hasattr(other, '_md'):
+        return False

    @ @ -113,6 +134,7 @ @ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        continue
    if self._md[data] != other._md[data]:
        _log_failure(data)
return False

# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which

@@ -120,8 +142,10 @@ class UpdateNotice(object):
data = 'status'
    if self._md[data] != other._md[data]:
        if self._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
            return False
        if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
            return False

# They are both really "stable" ...
    self._md[data] = 'stable'

@@ -574,7 +598,7 @@ class UpdateMetadata(object):
for event, elem in safe_iterparse(infile, logger=self._logger):
    if elem.tag == 'update':
        try:
-            un = UpdateNotice(elem)
+            un = UpdateNotice(elem, repoid, self._vlogger)
        except UpdateNoticeException, e:
            msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
            if self._vlogger:
                msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'], _rid(repoid))
            if not have_dup:
                msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%
            + msg += _("If you are the owner, consider re-running the same command with --verbose to see the "+ 'exact data that caused the conflict.')
            have_dup = True
            if self._vlogger:
                self._vlogger.warn("%s", msg)

1.185 libidn 1.32 3ubuntu1.2
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.191 python-defaults 2.7.15~rc1-1

1.191.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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.

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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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/* lib/font/fontfile/gunzip.c  
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996. 
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1.194 jackson-module-afterburner 2.9.10
1.194.1 Available under license :

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1.195 libgpg-error 1.12 3.el7

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- Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de/">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.
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Eran Librach &lt;eranl@valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

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Jonathan Knudsen &lt;jonathan@LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie@thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe@csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

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Michael M&amp;#252;hle &lt;michael@mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.
Michael Mansell &lt;me@michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker &lt;eike.recker@064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

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<li>Nicolas Bielza &lt;nicolas.bielza@alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
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objects. </li>
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<li>James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt; jim@064muirford.com&gt; - patch to PGPPrivateKey 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>
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<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@064digweb.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>
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<li>Petr Dukem &lt; pdukem@064-email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
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<li>Ville Skytta &lt;ville.skytta@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>
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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.

Lawrence Tan &lt;lwrntan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont&#064604gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href='http://www.keyon.ch'&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc&#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.

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Karsten Ohme &lt;widerstand&#064604t-online.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 typos 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.

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.

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- Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.
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- Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.
- Matthias &lt;g@064rtnner.de&gt; - GnuPG compatibility changes for PBFEFileProcessor.
- Olga K&auml;thler &lt;olga.kaethler@064hp-consulting.com&gt; - initial implementation of TeleTrust TEC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- N&uuml;ria Mar&iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in
CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
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<li>Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
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<li>Julien Pasquier &lt;julienpasquier#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
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<li>Tal Yacobi &lt;tal.yacobi#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BIA-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;mavricknx#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#064signature.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 [#BIA-93].</li>
<li>Alex Dupre &lt;ale#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-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>Ion Larrañaga &lt;ilarra#s21sec.com&gt; - fix to default partial packet generation in BCPOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns#064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
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<li>Robert J. Moore &lt;Robert.J.Moore#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
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Henrik Andersson &lt;k.henrik.andersson&#064;gmail.com&gt; addition of UniqueIssuerID to certificate generation.

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Cagdas Ciric &lt;cagdasciric&#064;064gmail.com&gt; subjectAlternativeName fix for x.509CertStoreSelector.

Harakiri &lt;harakiri_23&#064;064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahrenriques&#064;064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmersinger &lt;job&#064;064kimmersinger.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;r.farr.se&#064;064gmail.com&gt; initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione&#064;064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani&#064;064sogei.it&gt; patch for recognising multiple counter signatures.

Robin Lundgren &lt;l737lundgren&#064;064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil&#064;064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a&#064;064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat&#064;064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann&#064;064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home&#064;064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons&#064;064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole&#064;064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom&#064;064at stark.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau&#064;064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor&#064;064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilarings &lt;markus&#064;064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis&#064;064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith&#064;064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio&#064;064yahoo.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex&#064;064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;wayne.dgrant&#064;064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info&#064;064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan&#064;064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo&#064;064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.
Ivo Matheis &lt;i.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;marco.sandrini@eb.com&gt; patch to add IV to ISO9797/Alg3Mac.

Alf Alf &lt;alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSCContentInfoParser.

Alfonso Massa &lt;alfonso.massa@eb.com&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@eb.com&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@eb.com&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociiski &lt;j.sikociiski@eb.com&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@eb.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;lian.evelten@eb.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@eb.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@eb.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@eb.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@eb.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@eb.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@eb.com&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@eb.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@eb.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@eb.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petr Petrov &lt;peter.petrov@eb.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.wright@eb.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@eb.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;td.shaw@eb.com&gt; patch to MiscPEMGenerator for handling new PKCS10CeriticationRequests.

Eleriseth &lt;eleriseth@eb.com&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@eb.com&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@eb.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;phil.b@eb.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bc@eb.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel.lid&eacute;n@eb.com&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@eb.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 Memorable 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 CAST5 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 bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work. 

Marcus Lundblad &lt;marcus.lundblad#064primekey.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;tt555d#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 Hirscher &lt;dev#064daniel-hirscher.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.

Matti Aarnio &lt;matti.aarnio#064mletics.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 M&amp;uuml;ller &lt;eric.mueller#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts#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.grasso86#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#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;rtyley@&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@064pdfllabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin#064google.com&gt; &lt;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
Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@064cryptovision.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.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sirram &lt;mailto_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 Schaef &lt;https://github.com/martinschaef&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;toibias.wich@064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

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

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

Jens Kapitza &lt;j kapitza@064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan@064primekey.se&gt; update 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;axel-vdb@riseup.net&gt; Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.

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

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

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot &lt;https://github.com/thomas.belot+BC@064gmail.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.

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

Dominik Schummann &lt;https://github.com/dschummann&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;https://github.com/MSKnete@064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

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

Sergio Giro &lt;https://github.com/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.
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on
keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;https://github.com/bouncycastle&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Kai Kramer &lt;kai.kramer@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on
keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;https://github.com/bouncycastle&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Kai Kramer &lt;kai.kramer@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Niko &lt;https://github.com/nfink95&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012. &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaronowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.</li>
<li>Joseph Naegle &lt;https://github.com/jnaegele&gt; Patch to handle multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;https://github.com/girazoki&gt; Patch to deal with hardcoded boolean in EAC ECDSAPublic key.</li>
<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaronowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
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<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
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<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaronowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.</li>
<li>Joseph Naegle &lt;https://github.com/jnaegele&gt; Patch to handle multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;https://github.com/girazoki&gt; Patch to deal with hardcoded boolean in EAC ECDSAPublic key.
Open Source Used In cnBR 20.2-06042020 2298

- Weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- 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.
- jminer &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;scott@064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.
- David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.
- chris mccown &lt;0xc0rismccown&#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 RSA secret key encryption.
- Adam Vartanian &lt;https://github.com/flooey&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/vanitasvitae&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/nros&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@064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier &lt;up.gadermaier@064gmail.com&gt; initial version of Argon2 PBKDF algorithm.
- Tony Washer &lt;tony.washer@yahoo.co.uk&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/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAPrivateKeyParameters.

Gulis95 &lt;https://github.com/Gulis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toumne &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&amp;eacute;r, TrueSec &lt;Henrik.Palmer@truesec.se&gt; Additional improvements to constant time comparisons.

Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaelalaire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc: SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

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.

Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospelt &lt;https://github.com/tobias&amp;064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.
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1.199 bash 4.4.18 2ubuntu1.2

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1.200 cobra 3.2.17+dfsg-1
1.200.1 Available under license:

    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
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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"},
        Header: `This program is free software: you can redistribute it and/or modify
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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() {

// 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 == "" {
        er("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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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: ["gpl2", "gnu gpl2", "gplv2"],
        Header: `
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:        "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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func initBsdClause2() {  
Licenses["freebsd"] = License{  
Name: "Simplified BSD License",  
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},  
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`
`
}
}
package cmd

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

func initApache2() {

LICENSES["apache"] = License{
    Name: "Apache 2.0",
    PossibleMatches: ["apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"],
    Header: 
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README for release 6b of 27-Mar-1998

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

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.
I.JG is not affiliated with the official ISO JPEG standards committee.

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

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

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

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

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

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

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
==========

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/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
RELATED SOFTWARE

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

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

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

FILE FORMAT WARS

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

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

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.207 curl 7.64.0-r1

1.207.1 Available under license:

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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 [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). 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

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## 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.
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## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

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## OpenLDAP

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### fdisk 2.23.2

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1.209 nghttp 1.30.0 1ubuntu1

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set yrange [0:]
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

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1.210 python-defaults 3.5.3 1
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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.

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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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1.212 curl 7.47.0 1ubuntu2.9
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Upstream-Name: curl
Source: http://curl.haxx.se

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1.215 protobuf-c 1.3.2-r3

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1.216 musl 1.1.19-r11

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>
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  Gnomovision version 69, Copyright (C) 19yy name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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  under certain conditions; type `show c' for details.

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

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

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary
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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
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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy,
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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.

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these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.224 jakarta-ws-rs-api 2.1.5

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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```
set yrange [0:]
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
```

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1.226 kafka-streams 1.1.1

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1.235 json-cpp 1.7.4 3

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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1.237 ttmkfdir 3.0.9 42.el7

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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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>,
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Section 6 states terms for distribution of such executables.

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1.243 lz4 1.9.2-r0

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

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

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<td></td>
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Mesa 3-D graphics library

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## Apache Xalan v2.7.2

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```
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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
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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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
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1.260 mawk 1.3.3-17ubuntu2

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1.261 git 2.18.4-r0
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.265 apt 1.6.12

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
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the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
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a=20
library to dictate to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> 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 you 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 you 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.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

-mike

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

yes. go for it. thanks++

-a

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

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

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

-mike

-------------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------------
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 01 Oct 2007 16:59:49 +0000
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: <1b1b3fd80710010908k11dac0afpf1f2dd471059f9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afpf1f2dd471059f9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E6E9F@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>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

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

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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.

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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.

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

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

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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.

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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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/> 
* Code review, PEP8 compliance, benchmark fix

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* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
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* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

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

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

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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

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

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

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

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

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

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

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

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

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

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

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

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

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

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

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* 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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## libssh2
1.276 libuv 1.20.2-r0

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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 */

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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1.278 cracklib 2.9.0-11.el7
1.278.1 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 unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

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
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> 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

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On Monday 01 October 2007, Neulinger, Nathan wrote:
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> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=
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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
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applications are also GPL-2 which imo is just wrong. it isn't the place of =
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library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

------------------------------------------------------------
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From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...]
On Behalf Of Mike Frylinger
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
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unless their applications are also GPL-2 which imo is just wrong. it isnt the
place of a library to dictact to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

-mike

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

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> > > 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
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> >
> > 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
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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

-----------

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.

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

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
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-mike

Re: [Cracklib-devel] cracklib license
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> > 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 isn't the
> > place of a
> > library to dictact to application writes what license they should
> > be using,
> > thus LGPL-2.1 enters to fill this void.
> -mike

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

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

-a

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

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

yes. go for it. thanks++

-a

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

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

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

-mike

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

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.279 errors 29
1.279.1 Available under license :
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1.280 purell 1.1.1

1.280.1 Available under license:

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1.281 gophercloud 0.5.0

1.281.1 Available under license:

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/586
* https://github.com/gophercloud/gophercloud/pull/587
* 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:

```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 master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ 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). 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).

`/*
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

*/`

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](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```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",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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).

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 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.

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/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

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 to start a discussion about whether or not the feature should be included in Gophercloud. We don't 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
### 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:
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:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

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package testing

import (  
    "fmt"  
    "net/http"  
    "testing"  
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
    th "github.com/gophercloud/gophercloud/testhelper"  
    "github.com/gophercloud/gophercloud/testhelper/client"
)  

// 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 a 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) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
    })
}
fmt.Fprintf(w, UpdateResult)
}
}

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"
}
```

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"
}
```

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.

```go
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  
    }  
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}  
    })
}
```
// 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
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// 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.
// 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
}

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 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)
}

1.282 bean-validation-api 2.0.1
1.282.1 Available under license:
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1.284 ubuntu-keyring 2012.05.19

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1.286 collector 0.10

1.287 jetty-http 9.4.18.v20190429

1.288 jemalloc 5.2.1

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1.291 render 1.0.2

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1.292 dbus-python 1.1.1-9.el7

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1.293 pycurl 7.19.0-19.el7

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1.296 glibc 2.23 0ubuntu10

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<init>()Ljava/lang/Object(Ljava/lang/String;)Vequalsimplies&()Ljava/security/PermissionCollection;hashCode
getActions()Ljava/lang/String;
getName(Ljava/lang/Object;)Zjava/security/GuardtoStringjava/security/Permissionjava/io/Serializable
checkGuard
(Ljava/lang/Object;)V(Ljava/security/Permission;)Z!

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<?pde version="3.5"?>

<product name="Product With License" uid="licenseIU.product" useFeatures="false" includeLaunchers="true">

<configIni use="default"/>
</configIni>

<launcherArgs>

<vmArgsMac>-XstartOnFirstThread -Dorg.eclipse.swt.internal.carbon.smallFonts</vmArgsMac>

</launcherArgs>
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<init>()
java/lang/Object(java/lang/String;)V
equals
implies&()Ljava/security/PermissionCollection;
getActions()Ljava/security/Guard;
hashCode()int
newPermissionCollection()Ljava/security/PermissionCollection;
getName()Ljava/lang/String;
toString()Ljava/lang/String;
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java/lang/Objectjava/security/acl/Permission()Ljava/lang/String;equals(Ljava/lang/Object;)ZtoString

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### 1.299 libexecinfo 1.1-r1

#### 1.299.1 Available under license:

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```c
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 * $Id: execinfo.c,v 1.3 2004/07/19 05:21:09 sobomax Exp $
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```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1033528370_1591798595.54/0/libexecinfo-1-1-1-tar-bz2/libexecinfo-1.1/execinfo.c
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1.300 libtls-standalone 2.7.4-r6

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1.301 grep 2.27 2
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1.304 audit 2.6.7 2

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1.313 caffeine 2.2.6
1.314 lua 5.3.5 r1

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1.315 mime-support 3.60ubuntu1

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1.316 busybox 1.28.4-r0

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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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4. You may copy and distribute the Library (or a portion or
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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
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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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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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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,
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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
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distribute.

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END OF TERMS AND CONDITIONS

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

That's all there is to it!

1.320 liblocale-gettext-perl 1.05-8+b1
1.320.1 Available under license:

Maintainer: Phillip Vandry <vandry@TZoNE.ORG>
Source: http://search.cpan.org/dist/Locale-gettext/
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1.321 gnutls 3.3.8-6+deb8u7

1.321.1 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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##
## For details see http://shiftleft.org/papers/vector_aes/ and
## http://crypto.stanford.edu/vpaes/.
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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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
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of these things:

a) Accompany the work with the complete corresponding
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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
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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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
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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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specified materials from the same place.

e) Verify that the user has already received a copy of these
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1.328 jersey-client 2.28

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1.335 guava 20.0

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1.336 scala 2.12.8-400

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   not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
   Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\[ case (a, b) => ... ]`
   val x: ((Int, Int) => Int) = (((a, b)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.  
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,  
    or consider a pattern matching anonymous function: \{ case (param1, param2) => ... \}  
val y: ((Int, Int, Int) => Int) = ((a, !(!))) => a)  
^  
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.  
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple3,  
    or consider a pattern matching anonymous function: \{ case (param1, ..., param3) => ... \}  
val z: ((Int, Int, Int) => Int) = ((a, NotAPatternVariableName, c)) => a)  
^  
three errors found

Scala includes the JLine library, which includes the Jansi library.

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1.344 slf4j-log4j 1.6.1

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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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

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Java port of ubidi_props.h/.c.
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<?xml version="1.0" encoding="UTF-8"?>

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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.
Replaceable also includes API to access characters in the string: `length()`, `charAt()`, `char32At()` and `extractBetween()`. 

For a subclass to support metadata, typical behavior of `replace()` is the following: 

- Set the metadata of the new text to the metadata of the first character replaced 
- If no characters are replaced, use the metadata of the previous character 
- If there is no previous character (i.e. `start == 0`), use the following character 
- If there is no following character (i.e. the replaceable was empty), use default metadata 
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata 

If this is not the behavior, the subclass should document any differences.

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@see Replaceable 
@stable ICU 2.0
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package java.security;
import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    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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1.355 eclipse-core-runtime 3.7.0

1.356 procps 3.3.10-26.el7_7.1

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1.362 libressl 3.0.2-r0

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1.363 scala 2.12.4
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JUnit

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<one line to give the program's name and a brief idea of what it does.>
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Version 3, 29 June 2007

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| \ | \ | \ | i.e., he could execute anyone!''
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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    analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
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The KStem stemmer in
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was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
    analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
    analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
    analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
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and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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The SmartChineseAnalyzer source code (smarten) was
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===========================================================================

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which can be obtained from

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1.387 npth 1.3 1

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

builddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
  update_config_sub
default_prepare
}

build() {
  ./configure \
  --build=$CBUILD \n  --host=$CHOST \n  --prefix=/usr 
make
}

package() {
  make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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USA
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pkgname=py3-flake8-copyright
=pkgnname=flake8-copyright
pkgver=0.2.2
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=${pkgver}-${pkgrel}" # Backwards compatibility

build() {
    python3 setup.py build
}

package() {
    python3 setup.py install --prefix=/usr --root="$pkgdir"
}

sha512sums="8ade49f38e6e67d14e4b826946b947454cf250ff29a9ab1d359f61fa42ebc2b17dd465708894cf82fffd153f0be1bcd46464220d40d944dc1b07940ce280f28 flake8-copyright-0.2.2.tar.gz"

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# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=4
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    default_prepare

    export CFLAGS=\$(perl -MConfig -E 'say $Config{ccflags}\')
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    export CFLAGS=\$(perl -MConfig -E 'say $Config{ccflags}\')
    make
}

check() {
    make test
package() {
make DESTDIR="$pkgdir" install
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa541f7f6e38065ba65f4f616de9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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pkgname=spdx-licenses
pkgver=3.8
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/
arch="noarch"
options="!check"
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"
_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
  subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
  cd "$builddir"
}

package() {
  mkdir -p "$pkgdir"
}

_subpkg() {
  local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
  install_if="$pkgname"
  mkdir -p "$subpkgdir/usr/share/spdx"
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/}

list() {
  pkgdesc="$pkgdesc (licence list)"
  mkdir -p "$subpkgdir/usr/share/spdx"
  local i; for i in $builddir/text/*.txt; do
    local license=${i##*/}
    echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
  done
}

sha512sums="0950540df050fb7f7ce92f5ad1bff756725e233d701f0c5b2fc5bfa85dae65bba3400de7fd78b4b1d8a41de ab4e461a5f1018f4869d9f3e0428a5a64c32c01c60 license-list-data-3.8.tar.gz"
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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 from 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.

Author: Julio Merino <jmmv84@gmail.com>

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1.391 python-crypto 2.6.1 8ubuntu2

1.391.1 Available under license:

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.392 binutils 2.26.1 1ubuntu1~16.04.7
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party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.)

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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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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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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.

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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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That's all there is to it!
(This file is under construction.) -*- text -*-

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

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

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

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

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Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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The SmartChineseAnalyzer source code (smartcn) was
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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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.)

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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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
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man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/strtonum.3bsd
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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

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Apache

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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Assorted

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with the Library, with the complete machine-readable "work that
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Linus Torvalds

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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_nicstart() 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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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
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which the executable runs, unless that component itself accompanies
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnrì.reston.va.us)
in Reston, Virginia where he released several versions of the
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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1.437 util-linux 2.25.2-6

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 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
2d8e8df51a88a045db233418dd73fbd 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
2e1cee529cb59c9341afef0443f196a1 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
partitions: 4

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
partitions: 4

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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  

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1.449 glibc 2.27 3ubuntu1
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### DOM Level 3 Core Specification v1.0

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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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"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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

5. A program that contains no derivative of any portion of the 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
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modification of the work for the customer's own use and reverse
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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1.464 go-codec 1.1.7

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1.466 kafka-tools 1.1.1

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

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- jsp_2_2.xsd
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- web-common_3_0.xsd
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1.479 pcre 8.32 17.el7
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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Written by: Zoltan Herczeg
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1.480 jersey-metainf-services 2.25.1

1.481 node.js 14.3.0

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*/

// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabetash@gmail.com
// https://github.com/inexorabetash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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version 1.2.11, January 15th, 2017
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# spdx-license-ids


A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```
## Node.js API

### require('spdx-license-ids')

Type: `<Array<string>>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false

### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true

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'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_epols.c',
'openssl/crypto/x509v3/v3_crlid.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',

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'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pciia.c',
'openssl/crypto/x509v3/v3_pcons.c',
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'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prn.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_source.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl-engines/e_capi.c',
'openssl-engines/e_padlock.c',

'openssl_sources_BSD-x86_64': [
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aesni-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsa-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsa-z-avx2.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsa-z-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
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    './config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cmll-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
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    './config/archs/BSD-x86_64/asm_avx2/crypto/ctx/x86_64-z.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-z-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/keccak/keccak1600-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-z-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-z-avx2.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-z-x86_64.s',
]
./config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
],
'openssl-defines-BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'KECCAK1600_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'X25519_ASM',
  'POLY1305_ASM',
],
'openssl-cflags-BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
'openssl-ex-libs-BSD-x86_64': [
  '-pthread',
],
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
],
'defines': ['<@(openssl-defines-BSD-x86_64)]',
'cflags': ['<@(openssl-cflags-BSD-x86_64)]',
'libraries': ['<@(openssl-ex-libs-BSD-x86_64)]',
'sources': ['<@(openssl-sources)', '<@(openssl-sources-BSD-x86_64)]',
}
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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
SPDX expressions are valid, too ...
```

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(valid('(GPL-3.0-only OR BSD-2-Clause)'),
validSPDXExpression);
```

```javascript
... except if they contain `LicenseRef`:
```

```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
""SEE LICENSE IN <filename>"",
]
};
```

assert.deepEqual(valid('LicenseRef-Made-Up'),
warningAboutLicenseRef);

assert.deepEqual(valid('(MIT OR LicenseRef-Made-Up)')...
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'
});
```

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);
```

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'openssl/crypto/rsa/rsa_mp.c',
'openssl/crypto/rsa/rsa_none.c',
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`.config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.s`,
`.config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.s`,

`openssl_defines_BSD-x86`: [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_pic',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'RMD160_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'POLY1305_ASM',
],

`openssl_cflags_BSD-x86`: [
  '-Wa,-noexecstack',
  '-Wall -O3 -fomit-frame-pointer',
  '-pthread',
]
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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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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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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.

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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
|----------------+--------------+-----------+------------+-----------------+
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+------------------------------------------+
| 1.6.1 | 1.6  | 2001 | CNRI       | no   |
| 1.6  | 2000 | BeOpen.com | 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 |
|       |           |      |    |     |

| 2.1.2 | 2.1.1    | 2002 | PSF | yes |
|       |          |      |    |     |

| 2.1.3 | 2.1.2    | 2002 | PSF | yes |
|       |          |      |    |     |

| 2.1.3 | 2.1.2    | 2002 | PSF | yes |
|       |          |      |    |     |

| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |
|               |      |          |    |     |

| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |
|               |      |          |    |     |

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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
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
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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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expat
-----

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libffi
-----

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zlib
----

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the
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[This is the first released version of the library GPL. It is
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.491 jersey-media-jaxb 2.25.1

1.492 py-meld3 1.0.2 r1
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Version 3.1, 31 March 2009

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

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Linus Torvalds

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.500 cassandra-cpp-driver 2.10.0-r0

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Hwaci
6200 Maple Cove Lane
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
  default_prepare

cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make
}

check() {
  cd "$builddir"
make test
}

package() {
  cd "$builddir"
make DESTDIR="Spkgdir" install
find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
df5417f663b8065ba65f4e16dec9262728b3b6b85  BSD-Resource-1.2911.tar.gz"

# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgnname=py-flake8-copyright
 pkgname=flake8-copyright
 pkgver=0.2.0
 pkgrel=1
 pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-${pkgver}

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {
    cd "$builddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeeef26eb4d5223c9cd5b101e68175f6f62b353bf36da6886d62f738c3b8f5d86e5b8e65f4e19933eb90  flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528aff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c49933eb90  flake8-copyright-0.2.0.tar.gz"
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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer:
pkgname=spdx-licenses
pkgver=3.2
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/
arch="noarch"
options="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfla rdfnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
cd "$builddir"
}

package() {
mkdir -p "$pkgdir"
}
subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$build"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in "$build"/text/*.txt; do
local license=${i##*/}
echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="4d537a7fd7d6cd8c6f527c6dda56f84c71e9148f7d71ac48e2c088fba104e396545f1a551171f8bc6db07d1ae41447879544aeb5b05be79dd662db49191685  license-list-data-3.2.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL-2.0+
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
cd "$builddir"
update_config_sub
default_prepare
}

build() {
cd "$builddir"
./configure \
--build=$CBUILD \
--host=$CHOST \

--prefix=/usr
make
}

cd "$builddir"
makeshأت "$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aaee9bace727b5b4c8589405256a3c020" libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail

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1.502 keyutils 1.5.8 3.el7

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1.523 netcat-openbsd 1.105-7ubuntu1

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1.524 xz 5.1.1alpha+20120614 2ubuntu2  
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1.530 jetty-io 9.4.16.v20190411

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

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

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

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Oracle

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

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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Apache

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.531 netcat-openbsd 1.187-1ubuntu0.1
1.532 tini 0.18.0-r0

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources.jar/org/antlr/v4/runtime/token/TokenStream.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources.jar/org/antlr/v4/runtime/misc/Array2DHashSet.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ErrorInfo.java
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Written by:  Philip Hazel
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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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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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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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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ucf
Upstream-Contact: Manoj Srivastava <srivasta@debian.org>
Source: git://anonscm.debian.org/users/srivasta/debian/ucf.git
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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@perl.org mailing list.'
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

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
#!/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) = $copyright_msg =~ /
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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artistic control over the development of the package, while giving the users of

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c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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1.578 netns 1.0.0

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

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1.582 jaxb-runtime 2.3.0

1.583 iconv 2.23

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \

& defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE 1
#endif

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hello world
merhaba dnya

4-Byte sequences:
  Perch (Fish) Elevator!

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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 version 1.0.5 of 10 December 2007

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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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>,
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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>
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1.604 jersey-client 2.25.1

1.605 eclipse-core-commands 3.6.0

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1.610 binutils 2.27-41.base.el7_7.3

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(This file is under construction.)

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

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

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

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

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input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner’s mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.611 jersey-media-jaxb 2.28

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Version 3, 29 June 2007

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man/pidfile.3bsd
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.620 hppc 0.5.4

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1.622 govmomi 0.22.1

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/govmomi/license"
    "github.com/vmware/govmomi/govmomi/vim25/methods"
    "github.com/vmware/govmomi/govmomi/vim25/types"
)

type label struct {
    *flags.ClientFlag
}

func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq ".[].Labels[].Key == "team" | .LicenseKey"
`}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    licenseKey, err := f.GetString("license")
    if err != nil {
        return err
    }

    label, err := f.GetString("label")
    if err != nil {
        return err
    }

    // Set the license label
    // ...
return err
}

m := license.NewManager(client)

if f.NArg() != 3 {
    return flag.ErrHelp
}

req := types.UpdateLicenseLabel{
    This: m.Reference(),
    LicenseKey: f.Arg(0),
    LabelKey:   f.Arg(1),
    LabelValue: f.Arg(2),
}

_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}

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#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[1] | select(.LicenseKey == "$1")"
}

get_property() {
    jq -r ".Properties[] | select(.Key == "$1") .Value"
}
get_label() {
  govc license.ls -json | jq ".[].| select(.LicenseKey == "$1") | .Labels[].select(.Key == "$2") | .Value"
}

get_nlabel() {
  govc license.ls -json | jq ".[].| select(.LicenseKey == "$1") | .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env

  verify_evaluation

  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00000-00000-00000-00000-000001
  assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000 <<<${output} | jq ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation
key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success

  assert_equal 2 "$(get_nlabel $key)"
  assert_equal bar2 "$(get_label $key foo)"

  run govc license.label.set $key foo ""
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"
}
Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza
/*
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cpackage simulator

import 
  "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 (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if r.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
}

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
}

body := body

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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package license

type remove struct {
*flags.ClientFlag
*flags.OutputFlag
}

func init() {
cli.Register("license.remove", &remove{
})
}
func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}
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*/

package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"
)

"github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/
package license

import (
    "context"
    "flag"
    
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
if err != nil {
    return err
}

var result license.InfoList
m := license.NewManager(client)
for _, v := range f.Args() {
    license, err := m.Decode(ctx, v)
    if err != nil {
        return err
    }
    result = append(result, license)
}

result = append(result, license)

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))

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*/

package license

import (  
"context"  
"flag"  
"github.com/vmware/govmomi/govc/cli"  
"github.com/vmware/govmomi/govc/flags"  
"github.com/vmware/govmomi/license"  
"github.com/vmware/govmomi/vim25/types"
)

type assign struct {  
*flags.ClientFlag  
*flags.OutputFlag  
*flags.HostSystemFlag  
*flags.ClusterFlag

  name   string  
  remove bool
}
func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
if f.NArg() != 1 {
    return flag.ErrHelp
}

key := f.Arg(0)

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}
package simulator

import {
    "context"
    "reflect"
    "testing"
    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
}

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()
    defer m.Remove()
    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }
    s := m.Service.NewServer()
    defer s.Close()
    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }
    return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
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*/
```go
lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
t.Fatal(err)
}

if len(la) != 0 {
t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
la, err = am.QueryAssigned(ctx, name)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
t.Fatal("invalid license")
}
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
m := ESX()

defers m.Remove()
```
err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {s:s}", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {s:s}"
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}

*/

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*/

package license

import (  
    "context"  
    "flag"  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"
)
type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag
    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return nil
}
return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/

package license

import (
    "context"
    "flag"
    "fmt"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/govc/vim25/types"
)

type add struct {
    *flags.ClientFlag
func init() {
    cli.Register("license.add", &add{}

    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    // var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
case "VirtualCenter":
    addFunc = m.Add
default:
    return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
}

result = append(result, license)

return cmd.WriteResult(licenseOutput(result))

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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

defaultUsage = "List licenses with given feature"

type ls struct {

*flags.ClientFlag
*flags.OutputFlag

feature string
}

func init() {
cli.Register("license.ls", &ls{ })
}

func (*ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (*ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (*ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}
package license

import {
  "context"
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/types"
}

type AssignmentManager struct {
  object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
  req := types.QueryAssignedLicenses{
    This:     m.Reference(),
    EntityId: id,
  }

  res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
  if err != nil {
    return nil, err
  }

  return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
  req := types.RemoveAssignedLicense{
    This:     m.Reference(),
}

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*/
func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }
    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return &res.Returnval, nil
}

package license

import (  
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    r := []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    // Other code here...
}
err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil {
    return nil, err
}

if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }
    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        kv, ok := p.Value.(types.KeyValue)
        if p.Key != "feature" {
            continue
        }
    }
    return false
}
if !ok {
    continue
}

lf := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

1.623 rcrowley-go-metrics 0.0.0-
20190706150252-9beb055b7962
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1.624 selinux 2.7-2build2

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

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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.

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1.628 jackson-databind 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.629 python 3.6.9-r1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF. All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.638 systemd 237-3ubuntu10.41

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1.639 python-requests 2.12.4-1

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1.640 metrics-health-checks 4.0.5

1.641 cyrus-sasl 2.1.26.dfsg1-13+deb8u1
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1.652 patch 2.7.6

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1.654 python-dateutil 2.5.3-2

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It was downloaded from http://labix.org/python-dateutil

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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1.665 json-c 0.12.1-1.3ubuntu0.2

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1.666 mime-pull 1.9.7

1.667 babeltrace 1.5.1-1

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1.678 metrics-servlets 4.0.5

1.679 jaxb-api 2.2.11
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1.680 yajl 2.1.0

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1.681 pflag 3.2.17+dfsg-1

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1.682 e2fsprogs 1.45.5-r0

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Index: tdbsa/tdb.c

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
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Theodore Ts'o  
23-June-2007

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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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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
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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

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

image::$(BSDLIB)

$(BSDLIB): $(OBJS)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
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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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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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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.

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above 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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(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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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-qrnd.S, mpi/hppa1.1/mpi-mul2.S, mpi/hppa1.1/mpi-mul1.S, mpi/Makfile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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LIBGCRYPT Ulrich Miller 2012-02-15
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http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
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(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:
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1.713 python-keyring 10.6.0-1

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1.714 json-simple 1.1

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

1.717 tar 1.31

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/* Handle large integers for calculating big tape lengths and the like. In practice, double precision does for now. On the vast majority of machines, it counts up to 2**52 bytes without any loss
of information, and counts up to 2**62 bytes if data are always blocked in 1 kB boundaries. We'll need arbitrary precision arithmetic anyway once we get into the 2**64 range, so there's no point doing anything fancy before then. */

#define TARLONG_FORMAT "%.0f"
typedef double tarlong;

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1.719 json-c 0.13.1-r0

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-- vile: txmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
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-- vile: txtmode file-encoding=utf-8

1.724 okio 1.15.0

1.725 tzdata 2019b 1.el7

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1.726 el-api 6.0.53

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Source: https://github.com/javaee/el-spec/
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1.727 nghttp 1.39.2-r0

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```
set yrange [0:
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
```
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1.729 connect-runtime 1.1.1

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

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

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(\$\n)\(o\( \: \: \)\n\)/\1.o $@ : /g\" > $@;\ 
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/(\$\n)\(o\( \: \: \)\n\)/\1.o $@ : /g\" > $@;\ 
[ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$RM $@ && ln -s $<F> $@
%$(SO): %$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

---

**1.738 busybox 1.29.3-r12**

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1.739 ubuntu-keyring 2018.09.18.1~18.04.0

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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>
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#ifndef HAVE_SETREGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETREGUID
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)
#define COMPAT_POLL_H_
#endif

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 POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLWRBD NORM 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 */

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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID_H
#include <sys/types.h>
#include <sys/time.h>

#include <unistd.h>

#define _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif
#endif

ifndef HAVE_WAITPID_H
 ifndef HAVE_WAITPID_H
 define HAVE_WAITPID_H
 endif
#endif

/* 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)(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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1.749 libpsl 0.5.1 1

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List of contributors, approximately in order of time spent on project:

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## The Unicode Standard, Unicode Character Database, Version 10.0.0

### Unicode Character Database

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 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
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 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
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dffe51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 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
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1ceed529cb59e9341afe0443f196a1 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsiz bsize cpg]
c:  4096  20479  16384  unused  0  0
d:  0  16064  16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end   size     fstype [fsi bsi cp]
a:  4096  6144  2049     4.2BSD     0  0  0
c:  4096 20479  16384     unused     0  0

d:  0  16064  16065     unused     0  0

 BSD disklabel command (m for help):
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):

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

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*/

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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1.755 python-defaults 2.7.12-1~16.04

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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.

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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 (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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dh_python2, pycompile, pyclean and debpython module:
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1.760 shared-mime-info 1.8-4.el7

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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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

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

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

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


The 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
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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
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

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

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

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

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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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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1.779 python 3.6.9-1~18.04ubuntu1

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

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

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

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

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```
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```bash
http://snowball.tartarus.org/
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analysis/common/src/org/apache/lucene/analysis/en
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```java
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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
```

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```java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SPANishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hi/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
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1.788 python-pyasn1-modules 0.2.1 0.2

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1.790 jq 1.5+dfsg 2

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1.795 curl 7.61.1 r1

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1.798 mpfr 3.1.4 1

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1.807 mawk 1.3.3-17+b3

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1.821 jackson-dataformat-yaml 2.9.10

1.821.1 Available under license :

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1.822 apparmor 2.12-4ubuntu5.1

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jar/ninja/metrics/MetricsModule.java
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jar/ninja/metrics/Counted.java
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jar/ninja/metrics/MetricsService.java
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1.828 libxml 2.9.8-r2

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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));

#else ifndef __java_security_acl_Permission__#endif

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@appendixsubsec Preamble  

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That's all there is to it!
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 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>.
*/

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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<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.) Copyright (C) 1988-2016 Free Software Foundation, Inc. */

This file is part of GCC.

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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\
#define ASM_SHORT "\t.word\
#define ASM_LONG "\t.long\
#define ASM_QUAD "\t.quad" /* 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 \%d\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) \ 
( fputc (".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)))
#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
#
# Copyright (C) 2013-2016 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.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',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.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.
```python
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]*[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('
'(Copyright (C)', etc.
'\((C)c\)opyright'  
'\((C)c\)opyright\s+\(\(C)c\)'  
'\((C)c\)opyright\s+%'  
'\((C)c\)opyright\s+&copy;'  
'\((C)c\)opyright\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*\(?:' + 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 ')
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 ', '.
sself.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 OSErr
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None

            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 OSErr
                        pass
                lines = []
                changed = False
                line_filter = filter.get_line_filter(dir, filename)
                with open(pathname, 'r') as file:
                    prev = None

                    lines = []
                    changed = False
                    line_filter = filter.get_line_filter(dir, filename)
                    with open(pathname, 'r') as file:
                        prev = None

                        lines = []
                        changed = False
                        line_filter = filter.get_line_filter(dir, filename)
                        with open(pathname, 'r') as file:
                            prev = None

                            lines = []
                            changed = False
                            line_filter = filter.get_line_filter(dir, filename)
                            with open(pathname, 'r') as file:
                                prev = None

                                lines = []
                                changed = False
                                line_filter = filter.get_line_filter(dir, filename)
                                with open(pathname, 'r') as file:
                                    prev = None

                                    lines = []
                                    changed = False
                                    line_filter = filter.get_line_filter(dir, filename)
                                    with open(pathname, 'r') as file:
                                        prev = None

                                        lines = []
                                        changed = False
                                        line_filter = filter.get_line_filter(dir, filename)
                                        with open(pathname, 'r') as file:
                                            prev = None

                                            lines = []
                                            changed = False
                                            line_filter = filter.get_line_filter(dir, filename)
                                            with open(pathname, 'r') as file:
                                                prev = None

                                                lines = []
                                                changed = False
                                                line_filter = filter.get_line_filter(dir, filename)
                                                with open(pathname, 'r') as file:
                                                    prev = None

                                                    lines = []
                                                    changed = False
                                                    line_filter = filter.get_line_filter(dir, filename)
                                                    with open(pathname, 'r') as file:
                                                        prev = None

                                                        lines = []
                                                        changed = False
                                                        line_filter = filter.get_line_filter(dir, filename)
                                                        with open(pathname, 'r') as file:
                                                            prev = None

                                                            lines = []
                                                            changed = False
                                                            line_filter = filter.get_line_filter(dir, filename)
                                                            with open(pathname, 'r') as file:
                                                                prev = None

                                                                lines = []
                                                                changed = False
                                                                line_filter = filter.get_line_filter(dir, filename)
                                                                with open(pathname, 'r') as file:
                                                                    prev = None

                                                                    lines = []
                                                                    changed = False
                                                                    line_filter = filter.get_line_filter(dir, filename)
                                                                    with open(pathname, 'r') as file:
                                                                        prev = None

                                                                        lines = []
                                                                        changed = False
                                                                        line_filter = filter.get_line_filter(dir, filename)
                                                                        with open(pathname, 'r') as file:
                                                                            prev = None

                                                                            lines = []
                                                                            changed = False
                                                                            line_filter = filter.get_line_filter(dir, filename)
                                                                            with open(pathname, 'r') as file:
                                                                                prev = None

                                                                                lines = []
                                                                                changed = False
                                                                                line_filter = filter.get_line_filter(dir, filename)
                                                                                with open(pathname, 'r') as file:
                                                                                    prev = None

                                                                                    lines = []
                                                                                    changed = False
                                                                                    line_filter = filter.get_line_filter(dir, filename)
                                                                                    with open(pathname, 'r') as file:
                                                                                        prev = None

                                                                                        lines = []
                                                                                        changed = False
                                                                                        line_filter = filter.get_line_filter(dir, filename)
                                                                                        with open(pathname, 'r') as file:
                                                                                            prev = None

                                                                                            lines = []
                                                                                            changed = False
                                                                                            line_filter = filter.get_line_filter(dir, filename)
                                                                                            with open(pathname, 'r') as file:
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                                                                                                lines = []
                                                                                                changed = False
                                                                                                line_filter = filter.get_line_filter(dir, filename)
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                                                                                                    line_filter = filter.get_line_filter(dir, filename)
                                                                                                    with open(pathname, 'r') as file:
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                                                                                                        with open(pathname, 'r') as file:
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                                                                                                            line_filter = filter.get_line_filter(dir, filename)
                                                                                                            with open(pathname, 'r') as file:
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                                                                                                                with open(pathname, 'r') as file:
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                                                                                                                    with open(pathname, 'r') as file:
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                                                                                                                        with open(pathname, 'r') as file:
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                                                                                                                            with open(pathname, 'r') as file:
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                                                                                                                                with open(pathname, 'r') as file:
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                                                                                                                                    with open(pathname, 'r') as file:
                                                                                                                                        prev = None

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                                                                                                                                            with open(pathname, 'r') as file:
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                                                                                                                                                    with open(pathname, 'r') as file:
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                                                                                                                                                        line_filter = filter.get_line_filter(dir, filename)
                                                                                                                                                        with open(pathname, 'r') as file:
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                                                                                                                                                            lines = []
                                                                                                                                                            changed = False
                                                                                                                                                            line_filter = filter.get_line_filter(dir, filename)
                                                                                                                                                            with open(pathname, 'r') as file:
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                                                                                                                                                                        with open(pathname, 'r') as file:
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                                                                                                                                                                                lines = []
                                                                                                                                                                                changed = False
                                                                                                                                                                                line_filter = filter.get_line_filter(dir, filename)
                                                                                                                                                                                with open(pathname, 'r') as file:
                                                                                                                                                                                    prev = None

                                                                                                                                                                                    lines = []
                                                                                                                                                                                    changed = False
                                                                                                                                                                                    line_filter = filter.get_line_filter(dir, filename)
                                                                                                                                                                                    with open(pathname, 'r') as file:
                                                                                                                                                                                        prev = None

                                                                /gcc/
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
' % 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',
        ])

class MainManager (object):
    def __init__ (self):
        self.o_help()
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)
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.', cano
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 ('gnatertools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', 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 ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

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

GCCCmdLine().main()
/* gnu.classpath.tools.taglets.CopyrightTaglet
   Copyright (C) 2001 Free Software Foundation, Inc.
*/

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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();
            }
    }

    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
    }

    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 © " + tags[i].text() + "</i></dt>);
    }
}
result.append("</dl>");
return result.toString();
else {
    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$Permission * > * ENUM$VALUES;

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.
AI 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.cs.sds.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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@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@end display
@heading Preamble

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@end enumerate

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```

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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
* 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>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(')');

    return string.toString();
}
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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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.849 libpsl 0.19.1-5build1

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1.850 libice 1.0.9 9.el7

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1.851 scala-reflect 2.12.8

1.852 pygobject 3.26.1 2ubuntu1

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

Note that it is possible for a library to be covered by the ordinary
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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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for a fee.

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on
a volume of a storage or distribution medium does not bring the
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all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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<td>lib/interception/mach_override</td>
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javae_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javae_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
- javae_web_services_1_4.xsd
- javae_web_services_client_1_4.xsd
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1.872 jackson-dataformat-yaml 2.10.1

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```
compiler/cpp/Makefile.am
```

```
compiler/cpp/src/generate/t_cocoa_generator.cc
compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
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L. Peter Deutsch
ghost@aladdin.com

*/

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

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

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

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.879 simpleclient-common 0.0.26

1.880 apk-tools 2.10.1-r0

1.881 vim 8.0.0197-4+deb9u3

1.882 c3p0 0.9.5.2
1.882.1 Available under license :

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That's all there is to it!

/*
 * ALSA lisp implementation
 * Copyright (c) 2003 by Jaroslav Kysela <perex@perex.cz>
 *
 * Based on work of Sandro Sigala (slisp-1.2)
 *
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 *
 */

#include <assert.h>
#include <limits.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <math.h>
#include <err.h>
#define alisp_seq_iterator alisp_object

#include "local.h"
#include "alisp.h"
#include "alisp_local.h"

struct alisp_object alsa_lisp_nil;
struct alisp_object alsa_lisp_t;

/* parser prototypes */
static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken);
static void princ_cons(snd_output_t *out, struct alisp_object * p);
static void princ_object(snd_output_t *out, struct alisp_object * p);
static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p);

/* functions */
static struct alisp_object *F_eval(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_progn(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_funcall(struct alisp_instance *instance, struct alisp_object *);

/* others */
static int alisp_include_file(struct alisp_instance *instance, const char *filename);

/*
 * object handling
 */

static int get_string_hash(const char *s)
{
    int val = 0;
    if (s == NULL)
        return val;
    while (*s)
        val += *s++;
    return val & ALISP_OBJ_PAIR_HASH_MASK;
}

static void nomem(void)
{
    SNDERR("alisp: no enough memory");
}

static void lisp_verbose(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->verbose)
return;
va_start(ap, fmt);
snd_output_printf(instance->vout, "alisp: ");
snd_output_vprintf(instance->vout, fmt, ap);
snd_output_putc(instance->vout, '\n');
va_end(ap);
}

static void lisp_error(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->eout, "alisp error: ");
snd_output_vprintf(instance->eout, fmt, ap);
snd_output_putc(instance->eout, '\n');
    va_end(ap);
}

static void lisp_warn(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->wout, "alisp warning: ");
snd_output_vprintf(instance->wout, fmt, ap);
snd_output_putc(instance->wout, '\n');
    va_end(ap);
}

static void lisp_debug(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->debug)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->dout, "alisp debug: ");
snd_output_vprintf(instance->dout, fmt, ap);
snd_output_putc(instance->dout, '\n');
    va_end(ap);
}

static struct alisp_object * new_object(struct alisp_instance *instance, int type)
struct alisp_object * p;

if (list_empty(&instance->free_objs_list)) {
    p = (struct alisp_object *)malloc(sizeof(struct alisp_object));
    if (p == NULL) {
        nomem();
        return NULL;
    }
    lisp_debug(instance, "allocating cons %p", p);
} else {
    p = (struct alisp_object *)instance->free_objs_list.next;
    list_del(&p->list);
    instance->free_objs--;
    lisp_debug(instance, "recycling cons %p", p);
}

instance->used_objs++;

alisp_set_type(p, type);
alisp_set.refs(p, 1);
if (type == ALISP_OBJ_CONS) {
    p->value.c.car = &alsa_lisp_nil;
    p->value.c.cdr = &alsa_lisp_nil;
    list_add(&p->list, &instance->used_objs_list[0][ALISP_OBJ_CONS]);
}

if (instance->used_objs + instance->free_objs > instance->max_objs)
    instance->max_objs = instance->used_objs + instance->free_objs;

return p;

}

static void free_object(struct alisp_object * p) {
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
        free(p->value.s);
        alisp_set_type(p, ALISP_OBJ_INTEGER);
        break;
    default:
        break;
    }
}

static void delete_object(struct alisp_instance *instance, struct alisp_object * p) {
    // Delete object logic
}
if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
return;
if (alisp_compare_type(p, ALISP_OBJ_NIL) ||
    alisp_compare_type(p, ALISP_OBJ_T))
return;
assert(alisp_get_refs(p) > 0);
lisp_debug(instance, "delete cons %p (type = %i, refs = %i) (s = '%s')", p, alisp_get_type(p), alisp_get_refs(p),
alisp_compare_type(p, ALISP_OBJ_STRING) ||
alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) ? p->value.s : "???");
if (alisp_dec_refs(p))
return;
list_del(&p->list);
instance->used_objs--;
free_object(p);
if (instance->free_objs >= ALISP_FREE_OBJ_POOL) {
    lisp_debug(instance, "freed cons %p", p);
    free(p);
    return;
}
lisp_debug(instance, "moved cons %p to free list", p);
list_add(&p->list, &instance->free_objs_list);
instance->free_objs++;
}

static void delete_tree(struct alisp_instance *instance, struct alisp_object * p)
{
if (p == NULL)
return;
if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
    delete_tree(instance, p->value.c.car);
    delete_tree(instance, p->value.c.cdr);
}
deleale_object(instance, p);
}

static struct alisp_object * incrf_object(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object *

if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
return p;
if (alisp_get_refs(p) == ALISP_MAX_REFS) {
    assert(0);
    fprintf(stderr, "OOPS: alsa lisp: incrf fatal error\n");
    exit(EXIT_FAILURE);
}
alisp_inc_refs(p);
return p;
}
static struct alisp_object * incref_tree(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        incref_tree(instance, p->value.c.car);
        incref_tree(instance, p->value.c.cdr);
    }
    return incref_object(instance, p);
}

/* Function not used yet. Leave it commented out until we actually use it to
 * avoid compiler complaints */
#if 0
static struct alisp_object * incref_tree_explicit(struct alisp_instance *instance, struct alisp_object * p, struct
alisp_object * e)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        if (e == p) {
            incref_tree(instance, p->value.c.car);
            incref_tree(instance, p->value.c.cdr);
        } else {
            incref_tree_explicit(instance, p->value.c.car, e);
            incref_tree_explicit(instance, p->value.c.cdr, e);
        }
    }
    if (e == p)
        return incref_object(instance, p);
    return p;
}
#endif

static void free_objects(struct alisp_instance *instance)
{
    struct list_head *pos, *pos1;
    struct alisp_object * p;
    struct alisp_object_pair * pair;
    int i, j;

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
            pair = list_entry(pos, struct alisp_object_pair, list);
            lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
            delete_tree(instance, pair->value);
            free((void *)pair->name);
        }
    }
free(pair);
}
}
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
list_for_each_safe(pos, pos1, &instance->used_objs_list[i][j]) {
p = list_entry(pos, struct alisp_object, list);
lisp_warn(instance, "object %p is still referenced %i times!", p, alisp_get_refs(p));
#if 0
snd_output_printf(instance->wout, ">>>> ");
princ_object(instance->wout, p);
snd_output_printf(instance->wout, " <<<<
");
#endif
if (alisp_get_refs(p) > 0)
alisp_set_refs(p, 1);
delete_object(instance, p);
}
}
list_for_each_safe(pos, pos1, &instance->free_objs_list) {
p = list_entry(pos, struct alisp_object, list);
list_del(&p->list);
free(p);
lisp_debug(instance, "freed (all) cons %p", p);
}
}
static struct alisp_object * search_object_identifier(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_IDENTIFIER]) {
p = list_entry(pos, struct alisp_object, list);
if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
continue;
if (!strcmp(p->value.s, s))
return incref_object(instance, p);
}
return NULL;
}
static struct alisp_object * search_object_string(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_STRING]) {

p = list_entry(pos, struct alisp_object, list);
if (!strcmp(p->value.s, s)) {
    if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
    return incref_object(instance, p);
}
}

return NULL;
}

static struct alisp_object * search_object_integer(struct alisp_instance *instance, long in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(in & ALISP_OBJ_PAIR_HASH_MASK) & ALISP_OBJ_INTEGER])
    {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * search_object_float(struct alisp_instance *instance, double in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)in & ALISP_OBJ_PAIR_HASH_MASK] & ALISP_OBJ_FLOAT)
    {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * search_object_pointer(struct alisp_instance *instance, const void *ptr)
{ 
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[(long)ptr &
ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]) {
p = list_entry(pos, struct alisp_object, list);
if (p->value.ptr == ptr) {
if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
continue;
return incref_object(instance, p);
}
}

return NULL;
}

static struct alisp_object * new_integer(struct alisp_instance *instance, long value)
{
struct alisp_object * obj;

obj = search_object_integer(instance, value);
if (obj != NULL)
return obj;
obj = new_object(instance, ALISP_OBJ_INTEGER);
if (obj) {
list_add(&obj->list, &instance->used_objs_list[value &
ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]);
obj->value.i = value;
}
return obj;
}

static struct alisp_object * new_float(struct alisp_instance *instance, double value)
{
struct alisp_object * obj;

obj = search_object_float(instance, value);
if (obj != NULL)
return obj;
obj = new_object(instance, ALISP_OBJ_FLOAT);
if (obj) {
list_add(&obj->list, &instance->used_objs_list[(long)value &
ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]);
obj->value.f = value;
}
return obj;
}
static struct alisp_object * new_string(struct alisp_instance *instance, const char *str)
{
    struct alisp_object * obj;

    obj = search_object_string(instance, str);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_STRING);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(str)][ALISP_OBJ_STRING]);
    if (obj && (obj->value.s = strdup(str)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}

static struct alisp_object * new_identifier(struct alisp_instance *instance, const char *id)
{
    struct alisp_object * obj;

    obj = search_object_identifier(instance, id);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_IDENTIFIER);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(id)][ALISP_OBJ_IDENTIFIER]);
    if (obj && (obj->value.s = strdup(id)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}

static struct alisp_object * new_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct alisp_object * obj;

    obj = search_object_pointer(instance, ptr);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_POINTER);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]);
    }
obj->value.ptr = ptr;
}
return obj;

static struct alisp_object * new_cons_pointer(struct alisp_instance * instance, const char *ptr_id, void *ptr)
{
struct alisp_object * lexpr;

if (ptr == NULL)
return &alsa_lisp_nil;
lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr == NULL)
return NULL;
lexpr->value.c.car = new_string(instance, ptr_id);
if (lexpr->value.c.car == NULL)
goto __end;
lexpr->value.c.cdr = new_pointer(instance, ptr);
if (lexpr->value.c.cdr == NULL) {
delete_object(instance, lexpr->value.c.car);
__end:
delete_object(instance, lexpr);
return NULL;
}
return lexpr;

}

void alsa_lisp_init_objects(void) __attribute__ ((constructor));

void alsa_lisp_init_objects(void)
{
memset(&alsa_lisp_nil, 0, sizeof(alsa_lisp_nil));
alisp_set_type(&alsa_lisp_nil, ALISP_OBJ_NIL);
INIT_LIST_HEAD(&alsa_lisp_nil.list);
memset(&alsa_lisp_t, 0, sizeof(alsa_lisp_t));
alisp_set_type(&alsa_lisp_t, ALISP_OBJ_T);
INIT_LIST_HEAD(&alsa_lisp_t.list);
}

/*
 * lexer
 */

static int xgetc(struct alisp_instance *instance)
{
instance->charno++;
if (instance->lex_bufp > instance->lex_buf)
return *--(instance->lex_bufp);
return snd_input_getc(instance->in);
}

static inline void xungetc(struct alisp_instance *instance, int c)
{
  *(instance->lex_bufp)++ = c;
  instance->charno--;
}

static int init_lex(struct alisp_instance *instance)
{
  instance->charno = instance->lineno = 1;
  instance->token_buffer_max = 10;
  if ((instance->token_buffer = (char *)malloc(instance->token_buffer_max)) == NULL) {
      nomem();
      return -ENOMEM;
  }
  instance->lex_bufp = instance->lex_buf;
  return 0;
}

static void done_lex(struct alisp_instance *instance)
{
  free(instance->token_buffer);
}

static char * extend_buf(struct alisp_instance *instance, char *p)
{
  int off = p - instance->token_buffer;

  instance->token_buffer_max += 10;
  instance->token_buffer = (char *)realloc(instance->token_buffer, instance->token_buffer_max);
  if (instance->token_buffer == NULL) {
      nomem();
      return NULL;
  }
  return instance->token_buffer + off;
}

static int gettoken(struct alisp_instance *instance)
{
  char *p;
  int c;

  for (;;) {
    c = xgetc(instance);
    switch (c) {

case '\n':
++instance->lineno;
blood;

case '(': case ')': case '{': case '}': case '\v':
break;

case ':': /* Comment: "\":.*" */
while ((c = xgetc(instance)) != '\n' && c != EOF)
;
if (c != EOF)
++instance->lineno;
blood;

case '?': /* Character: "?" */
c = xgetc(instance);
sprintf(instance->token_buffer, "%d", c);
return instance->thistoken = ALISP_INTEGER;

case '+': /* Minus sign: "-" */
c = xgetc(instance);
if (!isdigit(c)) {
xungetc(instance, c);
c = '-';
goto got_id;
}
xungetc(instance, c);
c = '-';
/* FALLTHRU */
case '0': case '1': case '2': case '3':
case '4': case '5': case '6':
case '7': case '8': case '9': /* Integer: [0-9]+ */
p = instance->token_buffer;
isinstance->thistoken = ALISP_INTEGER;
do {
    __ok:
    if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
        p = extend_buf(instance, p);
        if (p == NULL)
            return instance->thistoken = EOF;
    }
    *p++ = c;

}
c = xgetc(instance);
if (c == '.' && instance->thistoken == ALISP_INTEGER) {
c = xgetc(instance);
xungetc(instance, c);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOAT;
c = '.';
goto __ok;
} else {
c = '.';
}
} else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
c = xgetc(instance);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOATE;
goto __ok;
}
}
} while (isdigit(c));
xungetc(instance, c);
*p = '\0';
return instance->thistoken;
got_id:
case '!': case '_': case '+': case '*': case '/': case '%':
case '<': case '>': case '=': case '&':
case 'a': case 'b': case 'c': case 'd': case 'e': case 'f':
case 'g': case 'h': case 'i': case 'j': case 'k': case 'l':
case 'm': case 'n': case 'o': case 'p': case 'q': case 'r':
case 's': case 't': case 'u': case 'v': case 'w': case 'x':
case 'y': case 'z':
case 'A': case 'B': case 'C': case 'D': case 'E': case 'F':
case 'G': case 'H': case 'I': case 'J': case 'K': case 'L':
case 'M': case 'N': case 'O': case 'P': case 'Q': case 'R':
case 'S': case 'T': case 'U': case 'V': case 'W': case 'X':
case 'Y': case 'Z':
/* Identifier: [!-/+*%<>=&a-zA-Z_][-/+*%<>=&a-zA-Z_0-9]* */
p = instance->token_buffer;
do {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
} while (isalnum(c) || strchr("!_-+*/%<>=&", c) != NULL);
xungetc(instance, c);

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/*
  parser
*/

static struct alisp_object * parse_form(struct alisp_instance *instance)
{
  int thistoken;
  struct alisp_object * p, * first = NULL, * prev = NULL;

  return instance->thistoken = ALISP_STRING;
  return instance->thistoken = c;
}
while ((thistoken = gettoken(instance)) != ')' && thistoken != EOF) {

/*
 * Parse a dotted pair notation.
 */
if (thistoken == '.') {
    gettoken(instance);
    if (prev == NULL) {
        lisp_error(instance, "unexpected ".");
        __err:
        delete_tree(instance, first);
        return NULL;
    }
    prev->value.c.cdr = parse_object(instance, 1);
    if (prev->value.c.cdr == NULL)
        goto __err;
    if ((thistoken = gettoken(instance)) != ')') {
        lisp_error(instance, "expected ")");
        goto __err;
    }
    break;
}

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
    goto __err;

if (first == NULL)
    first = p;
if (prev != NULL)
    prev->value.c.cdr = p;

p->value.c.car = parse_object(instance, 1);
if (p->value.c.car == NULL)
    goto __err;
prev = p;
}

if (first == NULL)
    return &alsa_lisp_nil;
else
    return first;
}

static struct alisp_object * quote_object(struct alisp_instance *instance, struct alisp_object * obj)
{
    struct alisp_object * p;

if (obj == NULL)
goto __end1;

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
goto __end1;

p->value.c.car = new_identifier(instance, "quote");
if (p->value.c.car == NULL)
goto __end;
p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
if (p->value.c.cdr == NULL) {
    delete_object(instance, p->value.c.car);
    __end:
    delete_object(instance, p);
    __end1:
    delete_tree(instance, obj);
    return NULL;
}

p->value.c.cdr->value.c.car = obj;
return p;
}

static inline struct alisp_object * parse_quote(struct alisp_instance *instance)
{
    return quote_object(instance, parse_object(instance, 0));
}

static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken)
{
    int thistoken;
    struct alisp_object * p = NULL;

    if (!havetoken)
        thistoken = gettoken(instance);
    else
        thistoken = instance->thistoken;

    switch (thistoken) {
    case EOF:
        break;
    case '\':
        p = parse_form(instance);
        break;
    case '\'
        p = parse_quote(instance);
        break;
    }
break;
case ALISP_IDENTIFIER:
if (!strcmp(instance->token_buffer, "t"))
p = &alsa_lisp_t;
else if (!strcmp(instance->token_buffer, "nil"))
p = &alsa_lisp_nil;
else {
p = new_identifier(instance, instance->token_buffer);
}
break;
case ALISP_INTEGER: {
p = new_integer(instance, atol(instance->token_buffer));
break;
}
case ALISP_FLOAT:
case ALISP_FLOATE: {
p = new_float(instance, atof(instance->token_buffer));
break;
}
case ALISP_STRING:
p = new_string(instance, instance->token_buffer);
break;
default:
lisp_warn(instance, "%d:%d: unexpected character `%c'", instance->lineno, instance->charno, thistoken);
break;
}
return p;
}

/*
 * object manipulation
 */

static struct alisp_object_pair * set_object_direct(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
struct alisp_object_pair *p;
const char *id;

id = name->value.s;
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
nomem();
return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
delete_tree(instance, value);
free(p);
return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static int check_set_object(struct alisp_instance * instance, struct alisp_object * name)
{
if (name == &alsa_lisp_nil) {
lisp_warn(instance, "setting the value of a nil object");
return 0;
}
if (name == &alsa_lisp_t) {
lisp_warn(instance, "setting the value of a t object");
return 0;
}
if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
   !alisp_compare_type(name, ALISP_OBJ_STRING)) {
lisp_warn(instance, "setting the value of an object with non-identifier");
return 0;
}
return 1;
}

static struct alisp_object_pair * set_object(struct alisp_instance *instance, struct alisp_object * name, struct
alisp_object * value)
{
struct list_head *pos;
struct alisp_object_pair *p;
const char *id;

if (name == NULL || value == NULL)
return NULL;

id = name->value.s;

list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id)) {
delete_tree(instance, p->value);
p->value = value;
return p;
}
}
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
  nomem();
  return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
  delete_tree(instance, value);
  free(p);
  return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static struct alisp_object * unset_object(struct alisp_instance *instance, struct alisp_object * name)
{
  struct list_head *pos;
  struct alisp_object *res;
  struct alisp_object_pair *p;
  const char *id;

  if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
      !alisp_compare_type(name, ALISP_OBJ_STRING)) {
    lisp_warn(instance, "unset object with a non-indentifier");
    return &alsa_lisp_nil;
  }
  id = name->value.s;

  list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
    p = list_entry(pos, struct alisp_object_pair, list);
    if (!strcmp(p->name, id)) {
      list_del(&p->list);
      res = p->value;
      free((void *)p->name);
      free(p);
      return res;
    }
  }
  return &alsa_lisp_nil;
}

static struct alisp_object * get_object1(struct alisp_instance *instance, const char *id)
{
  struct alisp_object_pair *p;
  struct list_head *pos;
list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
    p = list_entry(pos, struct alisp_object_pair, list);
    if (!strcmp(p->name, id))
        return p->value;
}

return &alsa_lisp_nil;
}

static struct alisp_object * get_object(struct alisp_instance *instance, struct alisp_object * name)
{
    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
        return &alsa_lisp_nil;
    }
    return get_object1(instance, name->value.s);
}

static struct alisp_object * replace_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * onew)
{
    struct alisp_object_pair *p;
    struct alisp_object *r;
    struct list_head *pos;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
        return &alsa_lisp_nil;
    }
    id = name->value.s;
    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            r = p->value;
            p->value = onew;
            return r;
        }
    }

    return NULL;
}

static void dump_objects(struct alisp_instance *instance, const char *fname)
{
struct alisp_object_pair *p;
snd_output_t *out;
struct list_head *pos;
int i, err;

if (!strcmp(fname, "."))
    err = snd_output_stdio_attach(&out, stdout, 0);
else
    err = snd_output_stdio_open(&out, fname, "w+");
if (err < 0) {
    SNDERR("alisp: cannot open file "%s" for writing (%s)", fname, snd_strerror(errno));
    return;
}

for (i = 0; i < ALISP_OBJPAIR_HASH_SIZE; i++) {
    list_for_each(pos, &instance->setobjs_list[i]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (alisp_compare_type(p->value, ALISP_OBJ_CONS) &&
            alisp_compare_type(p->value->value.c.car, ALISP_OBJ_IDENTIFIER) &&
            !strcmp(p->value->value.c.car->value.s, "lambda")) {
            snd_output_printf(out, "(defun %s ", p->name);
            princ_cons(out, p->value->value.c.cdr);
            snd_output_printf(out, ")
        } else {
            snd_output_printf(out, "(setq %s ", p->name);
            princ_object(out, p->value);
            snd_output_printf(out, ")\n        };
    }
    snd_output_close(out);
}

static const char *obj_type_str(struct alisp_object * p) {
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_NIL: return "nil";
    case ALISP_OBJ_T: return "t";
    case ALISP_OBJ_INTEGER: return "integer";
    case ALISP_OBJ_FLOAT: return "float";
    case ALISP_OBJ_IDENTIFIER: return "identifier";
    case ALISP_OBJ_STRING: return "string";
    case ALISP_OBJ_POINTER: return "pointer";
    case ALISP_OBJ_CONS: return "cons";
    default: assert(0);
    }
}
static void print_obj_lists(struct alisp_instance *instance, snd_output_t *out)
{
    struct list_head *pos;
    struct alisp_object * p;
    int i, j;

    snd_output_printf(out, "** used objects\n");
    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
        for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
            list_for_each(pos, &instance->used_objs_list[i][j]) {
                p = list_entry(pos, struct alisp_object, list);
                snd_output_printf(out, "**   %p (%s) (", p, obj_type_str(p));
                if (!alisp_compare_type(p, ALISP_OBJ_CONS))
                    princ_object(out, p);
                else
                    snd_output_printf(out, "cons");
                snd_output_printf(out, " refs=%i\n", alisp_get_refs(p));
            }
    snd_output_printf(out, "** free objects\n");
    list_for_each(pos, &instance->free_objs_list) {
        p = list_entry(pos, struct alisp_object, list);
        snd_output_printf(out, "**   %p\n", p);
    }
}

static void dump_obj_lists(struct alisp_instance *instance, const char *fname)
{
    snd_output_t *out;
    int err;

    if (!strcmp(fname, "."))
        err = snd_output_stdio_attach(&out, stdout, 0);
    else
        err = snd_output_stdio_open(&out, fname, "w+");
    if (err < 0) {
        SNDERR("alisp: cannot open file '%s' for writing (%s)", fname, snd_strerror(errno));
        return;
    }

    print_obj_lists(instance, out);

    snd_output_close(out);
}

/*
 * functions
 */
static int count_list(struct alisp_object * p)
{
    int i = 0;

    while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS)) {
        p = p->value.c.cdr;
        ++i;
    }

    return i;
}

static inline struct alisp_object * car(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.car;
    return &alsa_lisp_nil;
}

static inline struct alisp_object * cdr(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.cdr;
    return &alsa_lisp_nil;
}

/*
 * Syntax: (car expr)
 */
static struct alisp_object * F_car(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
    delete_tree(instance, cdr(p1));
    p2 = car(p1);
    delete_object(instance, p1);
    return p2;
}

/*
 * Syntax: (cdr expr)
 */
static struct alisp_object * F_cdr(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object *p1 = car(args), *p2;
delete_tree(instance, cdr(args));
delete_object(instance, args);
p1 = eval(instance, p1);
delete_tree(instance, car(p1));
p2 = cdr(p1);
delete_object(instance, p1);
return p2;
}

/*
 * Syntax: (+ expr...)
 */
static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * n;
long v = 0;
double f = 0;
int type = ALISP_OBJ_INTEGER;
p1 = eval(instance, car(p));
for (;;) {
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
if (type == ALISP_OBJ_FLOAT)
    f += p1->value.i;
else
    v += p1->value.i;
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
    f += p1->value.f + v;
    v = 0;
    type = ALISP_OBJ_FLOAT;
} else {
    lisp_warn(instance, "sum with a non integer or float operand");
}
delete_tree(instance, p1);
p = cdr(n = p);
delete_object(instance, n);
if (p == &alsa_lisp_nil)
    break;
p1 = eval(instance, car(p));
}
if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}
/*  * Syntax: (concat expr...)  */  
static struct alisp_object * F_concat(struct alisp_instance *instance, struct alisp_object * args)  
{  
struct alisp_object * p = args, * p1, * n;  
char *str = NULL, *str1;  

p1 = eval(instance, car(p));  
for (;;) {  
if (alisp_compare_type(p1, ALISP_OBJ_STRING)) {  
str1 = realloc(str, (str ? strlen(str) : 0) + strlen(p1->value.s) + 1);  
if (str1 == NULL) {  
nomem();  
free(str);  
return NULL;  
}  
if (str == NULL)  
strcpy(str1, p1->value.s);  
else  
strcat(str1, p1->value.s);  
str = str1;  
} else {  
lisp_warn(instance, "concat with a non string or identifier operand");  
}  
delete_tree(instance, p1);  
p = cdr(n = p);  
delete_object(instance, n);  
if (p == &alsa_lisp_nil)  
break;  
p1 = eval(instance, car(p));  
}  
if (str) {  
p = new_string(instance, str);  
free(str);  
} else {  
p = &alsa_lisp_nil;  
}  
return p;  
}  

/*
 * Syntax: (- expr...)  */  
static struct alisp_object * F_sub(struct alisp_instance *instance, struct alisp_object * args)  
{  
struct alisp_object * p = args, * p1, * n;  
long v = 0;  


double f = 0;
int type = ALISP_OBJ_INTEGER;

do {
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        if (p == args && cdr(p) != &alsa_lisp_nil) {
            v = p1->value.i;
        } else {
            if (type == ALISP_OBJ_FLOAT)
                f -= p1->value.i;
            else
                v -= p1->value.i;
        }
    } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
        if (type == ALISP_OBJ_INTEGER) {
            f = v;
            type = ALISP_OBJ_FLOAT;
        }
        if (p == args && cdr(p) != &alsa_lisp_nil)
            f = p1->value.f;
        else {
            f -= p1->value.f;
        }
    } else
        lisp_warn(instance, "difference with a non integer or float operand");
    delete_tree(instance, p1);
    n = cdr(p);
    delete_object(instance, p);
    p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (* expr...)
 */
static struct alisp_object * F_mul(struct alisp_instance *instance, struct alisp_object *args) {
    struct alisp_object * p = args, * p1, * n;
    long v = 1;
    double f = 1;
    int type = ALISP_OBJ_INTEGER;

do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  if (type == ALISP_OBJ_FLOAT) {
    f *= p1->value.i;
  } else {
    v *= p1->value.i;
  }
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
  f *= p1->value.f * v; v = 1;
  type = ALISP_OBJ_FLOAT;
} else {
  lisp_warn(instance, "product with a non integer or float operand");
}
delete_tree(instance, p1);
}
}
if (type == ALISP_OBJ_INTEGER) {
  return new_integer(instance, v);
} else {
  return new_float(instance, f);
}
}

/*
* Syntax: (/ expr...)
*/
static struct alisp_object * F_div(struct alisp_instance *instance, struct alisp_object * args) {
  struct alisp_object * p = args, * p1, * n;
  long v = 0;
  double f = 0;
  int type = ALISP_OBJ_INTEGER;
  do {
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
      if (p == args && cdr(p) != &alsa_lisp_nil) {
        v = p1->value.i;
      } else {
        if (p1->value.i == 0) {
          lisp_warn(instance, "division by zero");
          v = 0;
          f = 0;
          break;
        }
      }
    } else {
      lisp_warn(instance, "division by zero");
      v = 0;
      f = 0;
      break;
    }
  } while (p != &alsa_lisp_nil);
  if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
  } else {
    return new_float(instance, f);
  }
}
} else {
    if (type == ALISP_OBJ_FLOAT)
        f /= p1->value.i;
    else
        v /= p1->value.i;
    }
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
    if (type == ALISP_OBJ_INTEGER) {
        f = v;
        type = ALISP_OBJ_FLOAT;
    } else if (p == args && cdr(p) != &alsa_lisp_nil) {
        f = p1->value.f;
    } else {
        if (p1->value.f == 0) {
            lisp_warn(instance, "division by zero");
            f = 0;
            break;
        } else {
            f /= p1->value.i;
        }
    }
    } else
    lisp_warn(instance, "quotient with a non integer or float operand");
    delete_tree(instance, p1);
    n = cdr(p);
    delete_object(instance, p);
    p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (% expr1 expr2)
 */
static struct alisp_object * F_mod(struct alisp_instance *instance, struct alisp_object *args) {
    struct alisp_object * p1, * p2, * p3;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, car(cdr(args)));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
if (p2->value.i == 0) {
    lisp_warn(instance, "module by zero");
p3 = new_integer(instance, 0);
} else {
p3 = new_integer(instance, p1->value.i % p2->value.i);
}
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
f1 = fmod(f1, f2);
if (f1 == EDOM) {
lisp_warn(instance, "module by zero");
p3 = new_float(instance, 0);
} else {
p3 = new_float(instance, f1);
}
} else {
lisp_warn(instance, "module with a non integer or float operand");
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return p3;

/*
 * Syntax: (< expr1 expr2)
 */
static struct alisp_object * F_lt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i < p2->value.i) {
        __true:
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 < f2) goto __true;
} else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;

/*
 * Syntax: (> expr1 expr2)
 */
static struct alisp_object * F_gt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i > p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
  alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
  (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
  alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
  double f1, f2;
  f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
  f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
  if (f1 > f2)
    goto __true;
  else {
    lisp_warn(instance, "comparison with a non integer or float operand");
  }
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;

/*
 * Syntax: (<= expr1 expr2)
 */
static struct alisp_object * F_le(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
      alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i <= p2->value.i) {
      __true:
      delete_tree(instance, p1);
      delete_tree(instance, p2);
      return &alsa_lisp_t;
    }
  } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 <= f2)
goto __true;
} else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (>= expr1 expr2)
*/
static struct alisp_object * F_ge(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i >= p2->value.i) {
            __true:
            delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
        }
    } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
        double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 >= f2)
goto __true;
    } else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
/*
 * Syntax: (= expr1 expr2)
 */
static struct alisp_object * F_numeq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i == p2->value.i) {
            goto __true;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
              alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
       (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
             alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alispCompareType(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        if (f1 == f2)
            goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_t;
}

/*
 * Syntax: (!= expr1 expr2)
 */
static struct alisp_object * F_numneq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = F_numeq(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i == p2->value.i) {
            goto __true;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
              alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
       (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
             alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alispCompareType(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        if (f1 == f2)
            goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}
if (p == &alsa_lisp_nil)
    return &alsa_lisp_t;
return &alsa_lisp_nil;
}

/*
 * Syntax: (exfun name)
 * Test, if a function exists
 */
static struct alisp_object * F_exfun(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p2 = get_object(instance, p1);
    if (p2 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        return &alsa_lisp_nil;
    }
    p2 = car(p2);
    if (alisp_compare_type(p2, ALISP_OBJ_IDENTIFIER) &&
        !strcmp(p2->value.s, "lambda")) {
        delete_tree(instance, p1);
        return &alsa_lisp_t;
    }
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

static void princ_string(snd_output_t *out, char *s)
{
    char *p;

    snd_output_putchar(out, '"');
    for (p = s; *p != '\0'; ++p)
        switch (*p) {
        case \a': snd_output_putchar(out, '\a'); break;
        case \b': snd_output_putchar(out, '\b'); break;
        case \f': snd_output_putchar(out, '\f'); break;
        case \n': snd_output_putchar(out, '\n'); break;
        case \r': snd_output_putchar(out, '\r'); break;
        case \t': snd_output_putchar(out, '\t'); break;
        case \v': snd_output_putchar(out, '\v'); break;
        case \": snd_output_putchar(out, '\"'); break;
        default: snd_output_putchar(out, *p);
        }
}
static void princ_cons(snd_output_t *out, struct alisp_object * p)
{
    do {
        princ_object(out, p->value.c.car);
        p = p->value.c.cdr;
        if (p != &alsa_lisp_nil) {
            snd_output_putc(out, ' ');
            if (!alisp_compare_type(p, ALISP_OBJ_CONS)) {
                snd_output_printf(out, " . ");
                princ_object(out, p);
            }
        }
    } while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS));
}

static void princ_object(snd_output_t *out, struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_NIL:
        snd_output_printf(out, "nil");
        break;
    case ALISP_OBJ_T:
        snd_output_putc(out, 't');
        break;
    case ALISP_OBJ_IDENTIFIER:
        snd_output_printf(out, "%s", p->value.s);
        break;
    case ALISP_OBJ_STRING:
        princ_string(out, p->value.s);
        break;
    case ALISP_OBJ_INTEGER:
        snd_output_printf(out, "%ld", p->value.i);
        break;
    case ALISP_OBJ_FLOAT:
        snd_output_printf(out, "%f", p->value.f);
        break;
    case ALISP_OBJ_POINTER:
        snd_output_printf(out, "<%p>", p->value.ptr);
        break;
    case ALISP_OBJ_CONS:
        snd_output_putc(out, '(');
        princ_cons(out, p);
        snd_output_putc(out, ')');
    }
}
static struct alisp_object * F_princ(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = args, * p1 = NULL, * n;
    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_STRING))
            snd_output_printf(instance->out, "%s", p1->value.s);
        else
            princ_object(instance->out, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    } while (p != &alsa_lisp_nil);
    return p1;
}

static struct alisp_object * F_atom(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p;
    p = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (p == NULL)
        return NULL;
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_T:
    case ALISP_OBJ_NIL:
    case ALISP_OBJ_INTEGER:
    case ALISP_OBJ_FLOAT:
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
    case ALISP_OBJ_POINTER:
        delete_tree(instance, p);
        return &alsa_lisp_t;
    default:
break;
}

delete_tree(instance, p);
return &alsa_lisp_nil;
}

/*
 * Syntax: (cons expr1 expr2)
 */
static struct alisp_object * F_cons(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p;

p = new_object(instance, ALISP_OBJ_CONS);
if (p) {
  p->value.c.car = eval(instance, car(args));
p->value.c.cdr = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
} else {
  delete_tree(instance, args);
}

return p;
}

/*
 * Syntax: (list expr1...)
 */
static struct alisp_object * F_list(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * first = NULL, * prev = NULL, * p1;

if (p == &alsa_lisp_nil)
  return &alsa_lisp_nil;

do {
  p1 = new_object(instance, ALISP_OBJ_CONS);
  if (p1 == NULL) {
    delete_tree(instance, p);
delete_tree(instance, first);
    return NULL;
  }
p1->value.c.car = eval(instance, car(p));
  if (p1->value.c.car == NULL) {
    delete_tree(instance, first);
  }
}

return p1;
}
delete_tree(instance, cdr(p));
delete_object(instance, p);
return NULL;
}
if (first == NULL)
first = p1;
if (prev != NULL)
prev->value.c.cdr = p1;
prev = p1;
p = cdr(p1 = p);
delete_object(instance, p1);
} while (p != &alsalisp_nil);

return first;
}

static inline int eq(struct alisp_object * p1, struct alisp_object * p2)
{
return p1 == p2;
}

static int equal(struct alisp_object * p1, struct alisp_object * p2)
{
int type1, type2;

if (eq(p1, p2))
return 1;

type1 = alisp_get_type(p1);
type2 = alisp_get_type(p2);

if (type1 == ALISP_OBJ_CONS || type2 == ALISP_OBJ_CONS)
return 0;

if (type1 == type2) {
switch (type1) {
case ALISP_OBJ_STRING:
return !strcmp(p1->value.s, p2->value.s);
case ALISP_OBJ_INTEGER:
return p1->value.i == p2->value.i;
case ALISP_OBJ_FLOAT:
return p1->value.i == p2->value.i;
}
}

return 0;
}
/* 
* Syntax: (eq expr1 expr2) 
*/
static struct alisp_object * F_eq(struct alisp_instance *instance, struct alisp_object * args) 
{ 
struct alisp_object * p1, * p2;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (eq(p1, p2)) {
    delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

;/* 
* Syntax: (equal expr1 expr2) 
*/
static struct alisp_object * F_equal(struct alisp_instance *instance, struct alisp_object * args) 
{ 
struct alisp_object * p1, * p2;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (equal(p1, p2)) {
    delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

;/* 
* Syntax: (quote expr) 
*/
*/
static struct alisp_object * F_quote(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args)
{
    struct alisp_object *p = car(args);
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    return p;
}

/*
* Syntax: (and expr...)
*/
static struct alisp_object * F_and(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;
    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = eval(instance, car(p));
        if (p1 == &alsa_lisp_nil) {
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            return &alsa_lisp_nil;
        }
        p = cdr(n = p);
        delete_object(instance, n);
    } while (p != &alsa_lisp_nil);
    return p1;
}

/*
* Syntax: (or expr...)
*/
static struct alisp_object * F_or(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;
    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = eval(instance, car(p));
        if (p1 != &alsa_lisp_nil) {
            delete_tree(instance, car(p));
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            return &alsa_lisp_nil;
        }
        p = cdr(n = p);
        delete_object(instance, n);
    } while (p != &alsa_lisp_nil);
    return p1;
}
delete_object(instance, p);
return p1;
}
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return &alsa_lisp_nil;
}

/*
 * Syntax: (not expr)
 * Syntax: (null expr)
 */
static struct alisp_object * F_not(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args));

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (p != &alsa_lisp_nil) {
delete_tree(instance, p);
return &alsa_lisp_nil;
}
delete_tree(instance, p);
return &alsa_lisp_t;
}

/*
 * Syntax: (cond (expr1 [expr2])...)
 */
static struct alisp_object * F_cond(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2, * p3;

do {
p1 = car(p);
if ((p2 = eval(instance, car(p1))) != &alsa_lisp_nil) {
p3 = cdr(p1);
delete_object(instance, p1);
delete_tree(instance, cdr(p));
delete_object(instance, p);
if (p3 != &alsa_lisp_nil) {
delete_tree(instance, p2);
return F_progn(instance, p3);
} else {
delete_tree(instance, p3);
}
return p2;
} else {
    delete_tree(instance, p2);
    delete_tree(instance, cdr(p1));
    delete_object(instance, p1);
}

p = cdr(p2 = p);
delete_object(instance, p2);
}

return &alsa_lisp_nil;
}

/*
 * Syntax: (if expr then-expr else-expr...)
 */
static struct alisp_object * F_if(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
    p2 = car(cdr(args));
    p3 = cdr(cdr(args));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    p1 = eval(instance, p1);
    if (p1 != &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, p3);
        return eval(instance, p2);
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return F_progn(instance, p3);
}

/*
 * Syntax: (when expr then-expr...)
 */
static struct alisp_object * F_when(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args);
delete_object(instance, args);
if ((p1 = eval(instance, p1)) != &alsa_lisp_nil) {
    delete_tree(instance, p1);
    return F_progn(instance, p2);
} else {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
}

return &alsa_lisp_nil;
}

/*
 * Syntax: (unless expr else-expr...)
 */
static struct alisp_object * F_unless(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args);
    delete_object(instance, args);
    if ((p1 = eval(instance, p1)) == &alsa_lisp_nil) {
        return F_progn(instance, p2);
    } else {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (while expr exprs...) 
 */
static struct alisp_object * F_while(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
    p2 = cdr(args);

delete_object(instance, args);
    while (1) {
        incf_tree(instance, p1);
        if ((p3 = eval(instance, p1)) == &alsa_lisp_nil)
            break;
        delete_tree(instance, p3);
incref_tree(instance, p2);
delete_tree(instance, F_progn(instance, p2));
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (progn expr...)
*/
static struct alisp_object * F_progn(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;
do {
if (p1)
delete_tree(instance, p1);
p1 = eval(instance, car(p));
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);
return p1;
}

/*
 * Syntax: (prog1 expr...)
*/
static struct alisp_object * F_prog1(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * first = NULL, * p1;
do {
p1 = eval(instance, car(p));
if (first == NULL)
first = p1;
else
delete_tree(instance, p1);
p1 = cdr(p);
delete_object(instance, p);
p = p1;
} while (p != &alsa_lisp_nil);
if (first == NULL)
first = &alsa_lisp_nil;
return first;
}

/*
 * Syntax: (prog2 expr...)
 */
static struct alisp_object * F_prog2(struct alisp_instance *instance, struct alisp_object *args)
{
    struct alisp_object * p = args, * second = NULL, * p1;
    int i = 0;

    do {
        ++i;
        p1 = eval(instance, car(p));
        if (i == 2)
            second = p1;
        else
            delete_tree(instance, p1);
        p1 = cdr(p);
        delete_object(instance, p);
        p = p1;
    } while (p != &alsa_lisp_nil);

    if (second == NULL)
        second = &alsa_lisp_nil;

    return second;
}

/*
 * Syntax: (set name value)
 */
static struct alisp_object * F_set(struct alisp_instance *instance, struct alisp_object *args)
{
    struct alisp_object * p1 = eval(instance, car(args)),
        * p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);
    if (!check_set_object(instance, p1)) {
        delete_tree(instance, p2);
        p2 = &alsa_lisp_nil;
    } else {
        if (set_object(instance, p1, p2) == NULL) {
            delete_tree(instance, p1);
            delete_tree(instance, p2);
        }
    }

return NULL;
}
}
delete_tree(instance, p1);
return incref_tree(instance, p2);
}

/*
 * Syntax: (unset name)
 */
static struct alisp_object * F_unset(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = eval(instance, car(args));

delete_tree(instance, unset_object(instance, p1));
delete_tree(instance, cdr(args));
delete_object(instance, args);
return p1;
}

/*
 * Syntax: (setq name value...) 
 * Syntax: (setf name value...) 
 * `name' is not evalled
 */
static struct alisp_object * Fsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2 = NULL, *n;
do {
p1 = car(p);
p2 = eval(instance, car(cdr(p)));
n = cdr(cdr(p));
delete_object(instance, cdr(p));
delete_object(instance, p);
if (!check_set_object(instance, p1)) {
delete_tree(instance, p2);
p2 = &alsa_lisp_nil;
} else {
if (set_object(instance, p1, p2) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}
}
delete_tree(instance, p1);
p = n;
} while (p != &alsa_lisp_nil);
return incref_tree(instance, p2);
}

-syntax: (unsetq name...)
-syntax: (unsetf name...)
-*`name' is not evalled
*/
static struct alisp_object * F_unsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;
do {
    if (p1)
        delete_tree(instance, p1);
    p1 = unset_object(instance, car(p));
delete_tree(instance, car(p));
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);
return p1;
}

-syntax: (defun name arglist expr...)
-*`name' is not evalled
-*`arglist' is not evalled
*/
static struct alisp_object * F_defun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = car(args),
*p2 = car(cdr(args)),
*p3 = cdr(cdr(args));
struct alisp_object * lexpr;
lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr) {
    lexpr->value.c.car = new_identifier(instance, "lambda");
    if (lexpr->value.c.car == NULL) {
        delete_object(instance, lexpr);
delete_tree(instance, args);
return NULL;
    }
    if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
        delete_object(instance, lexpr->value.c.car);
delete_object(instance, lexpr);
}
delete_tree(instance, args);
return NULL;
}
lexpr->value.c.cdr->value.c.car = p2;
lexpr->value.c.cdr->value.c.cdr = p3;
delete_object(instance, cdr(args));
delete_object(instance, args);
if (set_object(instance, p1, lexpr) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, lexpr);
return NULL;
}
delete_tree(instance, p1);
} else {
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

static struct alisp_object * eval_func(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3, * p4;
struct alisp_object ** eval_objs, ** save_objs;
int i;

p1 = car(p);
if (alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER) &&
    !strcmp(p1->value.s, "lambda")) {
p2 = car(cdr(p));
p3 = args;

if ((i = count_list(p2)) != count_list(p3)) {
lisp_warn(instance, "wrong number of parameters");
goto _delete;
}

eval_objs = malloc(2 * i * sizeof(struct alisp_object *));
if (eval_objs == NULL) {
    nomem();
goto _delete;
}
save_objs = eval_objs + i;

/
*  Save the new variable values.
*/
i = 0;
while (p3 != &alsa_lisp_nil) {
    eval_objs[i++] = eval(instance, car(p3));
    p3 = cdr(p4 = p3);
    delete_object(instance, p4);
}

/*
 * Save the old variable values and set the new ones.
 *
 */
i = 0;
while (p2 != &alsa_lisp_nil) {
    p3 = car(p2);
    save_objs[i] = replace_object(instance, p3, eval_objs[i]);
    if (save_objs[i] == NULL &&
        set_object_direct(instance, p3, eval_objs[i]) == NULL) {
        p4 = NULL;
        goto _end;
    }
    p2 = cdr(p2);
    ++i;
}

p4 = F_progn(instance, cdr(incref_tree(instance, p3 = cdr(p))));

/*
 * Restore the old variable values.
 *
 */
p2 = car(p3);
delete_object(instance, p3);
i = 0;
while (p2 != &alsa_lisp_nil) {
    p3 = car(p2);
    if (save_objs[i] == NULL) {
        p3 = unset_object(instance, p3);
    } else {
        p3 = replace_object(instance, p3, save_objs[i]);
    }
    i++;
delete_tree(instance, p3);
delete_tree(instance, car(p2));
p2 = cdr(p3 = p2);
delete_object(instance, p3);
}

_end:
free(eval_objs);

return p4;
struct alisp_object * F_gc(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args ATTRIBUTE_UNUSED)
{
/* improved: no more traditional gc */
return &alsa_lisp_t;
}

/*
 * Syntax: (path what)
 * what is string ('data')
 */
struct alisp_object * F_path(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1;
p1 = eval(instance, car(args));
delete_tree(instance, cdr(args));
delete_object(instance, args);
if (!alisp_compare_type(p1, ALISP_OBJ_STRING)) {
delete_tree(instance, p1);
return &alsa_lisp_nil;
}
if (!strcmp(p1->value.s, "data")) {
delete_tree(instance, p1);
return new_string(instance, snd_config_topdir());
}
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
 * Syntax: (include filename...) 
 */
struct alisp_object * F_include(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1;
int res = -ENOENT;
do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_STRING))
res = alisp_include_file(instance, p1->value.s);
delete_tree(instance, p1);
p = cdr(p1 = p);
delete_object(instance, p1);
} while (p != &alsa_lisp_nil);

return new_integer(instance, res);
}

/**
 * Syntax: (string-to-integer value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_integer(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    p1 = new_integer(instance, floor(p->value.f));
else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

/**
 * Syntax: (string-to-float value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_float(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
    p1 = new_float(instance, p->value.i);
else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;

static int append_to_string(char **s, int *len, char *from, int size)
{
if (*len == 0) {
    *s = malloc(*len = size + 1);
    if (*s == NULL) {
        nomem();
        return -ENOMEM;
    }
    memcpy(*s, from, size);
} else {
    *len += size;
    *s = realloc(*s, *len);
    if (*s == NULL) {
        nomem();
        return -ENOMEM;
    }
    memcpy(*s + strlen(*s), from, size);
}
(*s)[*len - 1] = '\0';
return 0;
}

static int format_parse_char(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    char b;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "format: expected integer\n");
        return 0;
    }
    b = p->value.i;
    return append_to_string(s, len, &b, 1);
}

static int format_parse_integer(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }

    res = strtol(*s, &s1, 0);
    if (s1 == *s || !isdigit(*s1)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    *len = strlen(*s) + 1;
    *s = realloc(*s, *len);
    if (*s == NULL) {
        nomem();
        return -ENOMEM;
    }
    memcpy(*s + strlen(*s), from, size);
    (*s)[*len - 1] = '\0';
    return 0;
}
static int format_parse_float(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%f", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? p->value.f : (double)p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_string(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "format: expected string\n");
        return 0;
    }
    return append_to_string(s, len, p->value.s, strlen(p->value.s));
}

/*
 * Syntax: (format format value...)
 * 'format' is C-like format string
 */
struct alisp_object * F_format(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1 = cdr(args), * n;
char *s, *s1, *s2;
int len;

delete_object(instance, args);
if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {  
delete_tree(instance, p1);
delete_tree(instance, p);
lisp_warn(instance, "format: expected an format string");
return &alsa_lisp_nil;
}
s = p->value.s;
s1 = NULL;
len = 0;
n = eval(instance, car(p1));
do {
while (1) {
s2 = s;
while (*s2 && *s2 != '%')
s2++;
if (s2 != s) {
if (append_to_string(&s1, &len, s, s2 - s) < 0) {
__error:
delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
return NULL;
}
}
if (*s2 == '%')
s2++;
switch (*s2) {
case '%':
if (append_to_string(&s1, &len, s2, 1) < 0)
goto __error;
s = s2 + 1;
break;
case 'c':
if (format_parse_char(instance, &s1, &len, n) < 0)
goto __error;
s = s2 + 1;
goto __next;
case 'd':
case 'i':
if (format_parse_integer(instance, &s1, &len, n) < 0)
goto __error;
s = s2 + 1;
goto __next;
case 'T':
    if (format_parse_float(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
    goto __next;
case 's':
    if (format_parse_string(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
    goto __next;
case '0':
    goto __end;
default:
    lisp_warn(instance, "unknown format char '%c'", *s2);
    s = s2 + 1;
    goto __next;
}
}
__next:
delete_tree(instance, n);
p1 = cdr(n = p1);
delete_object(instance, n);
n = eval(instance, car(p1));
} while (*s);
__end:
delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
if (len > 0) {
p1 = new_string(instance, s1);
free(s1);
} else {
p1 = &alsa_lisp_nil;
}
return p1;

/*
 * Syntax: (compare-strings str1 start1 end1 str2 start2 end2 /opt-case-insensitive)
 * 'str1' is first compared string
 * 'start1' is first char (0..)
 * 'end1' is last char (0..)
 * 'str2' is second compared string
 * 'start2' is first char (0..)
 * 'end2' is last char (0..)
 * /opt-case-insensitive true - case insensitive match
struct alisp_object * F_compare_strings(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p1 = args, * n, * p[7];
    char *s1, *s2;
    int start1, end1, start2, end2;

    for (start1 = 0; start1 < 7; start1++) {
        p[start1] = eval(instance, car(p1));
        p1 = cdr(n = p1);
        delete_object(instance, n);
    }
    delete_tree(instance, p1);
    if (alisp_compare_type(p[0], ALISP_OBJ_STRING)) {
        lisp_warn(instance, "compare-strings: first argument must be string\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[1], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: second argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[2], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: third argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (alisp_compare_type(p[3], ALISP_OBJ_STRING)) {
        lisp_warn(instance, "compare-strings: fifth argument must be string\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (!alisp_compare_type(p[4], ALISP_OBJ_NIL) &&
    !alisp_compare_type(p[4], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: fourth argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    if (!alisp_compare_type(p[5], ALISP_OBJ_NIL) &&
    !alisp_compare_type(p[5], ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "compare-strings: sixth argument must be integer\n");
        p1 = &alsa_lisp_nil;
        goto __err;
    }
    s1 = p[0]->value.s;
    start1 = p[1]->value.i;
    end1 = p[2]->value.i;
}
/*

s2 = p[3]->value.s;
start2 = alisp_compare_type(p[4], ALISP_OBJ_NIL) ? 0 : p[4]->value.i;
end2 = alisp_compare_type(p[5], ALISP_OBJ_NIL) ? start2 + (end1 - start1) : p[5]->value.i;
if (start1 < 0 || start2 < 0 || end1 < 0 || end2 < 0 ||
    start1 >= (int)strlen(s1) || start2 >= (int)strlen(s2) ||
    (end1 - start1) != (end2 - start2)) {
    p1 = &alsa_lisp_nil;
    goto __err;
}
if (p[6] != &alsa_lisp_nil) {
    while (start1 < end1) {
        if (s1[start1] == '\0' ||
            s2[start2] == '\0' ||
            tolower(s1[start1]) != tolower(s2[start2])) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
} else {
    while (start1 < end1) {
        if (s1[start1] == '0' ||
            s2[start2] == '0' ||
            s1[start1] != s2[start2]) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
    p1 = &alsa_lisp_t;
}

__err:
for (start1 = 0; start1 < 7; start1++)
delete_tree(instance, p[start1]);
return p1;
}
/*
 * Syntax: (assoc key alist)
 */
struct alisp_object * F_assoc(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
delete_object(instance, args);

  do {  
    if (eq(p1, car(car(p2)))) {  
      n = car(p2);  
      delete_tree(instance, p1);  
      delete_tree(instance, cdr(p2));  
      delete_object(instance, p2);  
      return n;
    }
    delete_tree(instance, cdr(p2));
    p2 = cdr(n = p2);
    delete_object(instance, n);  
  } while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
 *  Syntax: (rassoc value alist)
 */
 *
struct alisp_object * F_rassoc (struct alisp_instance *instance, struct alisp_object * args)  
{
  struct alisp_object * p1, *p2, * n;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  do {  
    if (eq(p1, cdr(car(p2)))) {  
      n = car(p2);  
      delete_tree(instance, p1);  
      delete_tree(instance, cdr(p2));  
      delete_object(instance, p2);  
      return n;
    }
    delete_tree(instance, car(p2));
    p2 = cdr(n = p2);
    delete_object(instance, n);  
  } while (p2 != &alsa_lisp_nil);
struct alisp_object * F_assq(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p1, * p2, * n;
    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);
    do {
        if (equal(p1, car(car(p2)))) {
            n = car(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

struct alisp_object * F_nth(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p1, * p2, * n;
    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);
    do {
        n = car(p2);
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p2));
        delete_object(instance, p2);
        return n;
    } while (p2 != &alsa_lisp_nil);
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
if (!alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  delete_tree(instance, p1);
  delete_tree(instance, p2);
  return &alsa_lisp_nil;
}
if (!alisp_compare_type(p2, ALISP_OBJ_CONS)) {
  delete_object(instance, p1);
  delete_tree(instance, p2);
  return &alsa_lisp_nil;
}
idx = p1->value.i;
delete_object(instance, p1);
while (idx-- > 0) {
  delete_tree(instance, car(p2));
  p2 = cdr(n = p2);
  delete_object(instance, n);
}
  n = car(p2);
  delete_tree(instance, cdr(p2));
  delete_object(instance, p2);
  return n;
}

/*
 * Syntax: (rassq value alist)
 */

struct alisp_object * F_rassq(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2, * n;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  do {
    if (equal(p1, cdr(car(p2))))) {
      n = car(p2);
      delete_tree(instance, p1);
      delete_tree(instance, cdr(p2));
      delete_object(instance, p2);
      return n;
    }
    delete_tree(instance, car(p2));
    p2 = cdr(n = p2);
    delete_object(instance, n);
  } while (p2 != &alsa_lisp_nil);
}
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

static struct alisp_object * F_dump_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = car(args);

    if (p != &alsa_lisp_nil &&& cdr(args) == &alsa_lisp_nil &&
    alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_objects(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

static struct alisp_object * F_stat_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    snd_output_printf(instance->out, "*** Memory stats
");
    snd_output_printf(instance->out, "  used_objs = %li, free_objs = %li, max_objs = %li, obj_size = %i (total bytes = %li, max bytes = %li)n",
        instance->used_objs,
        instance->free_objs,
        instance->max_objs,
        (int)sizeof(struct alisp_object),
        (long)((instance->used_objs + instance->free_objs) * sizeof(struct alisp_object)),
        (long)(instance->max_objs * sizeof(struct alisp_object)));
    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

static struct alisp_object * F_check_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    delete_tree(instance, args);
    if (instance->used_objs > 0) {
        fprintf(stderr, "!!!alsa lisp - check memory failed!!!n");
        F_stat_memory(instance, &alsa_lisp_nil);
        exit(EXIT_FAILURE);
    }
    return &alsa_lisp_t;
static struct alisp_object * F_dump_objects(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = car(args);

    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_obj_lists(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

struct intrinsic {
    const char *name;
    struct alisp_object * (*func)(struct alisp_instance *instance, struct alisp_object * args);
};

static const struct intrinsic intrinsics[] = {
    { "!="}, F_numneq },
    { "%"}, F_mod },
    { "&check-memory"}, F_check_memory },
    { "&dump-memory"}, F_dump_memory },
    { "&dump-objects"}, F_dump_objects },
    { "&stat-memory"}, F_stat_memory },
    { "+"}, F_mul },
    { "+"}, F_add },
    { "-"}, F_sub },
    { "/"}, F_div },
    { "<"}, F_lt },
    { ">
    { ">="}, F_ge },
    { "and"}, F_and },
    { "assoc"}, F_assoc },
    { "assq"}, F_assq },
    { "atom"}, F_atom },
    { "car"}, F_car },
    { "cdr"}, F_cdr },
};
static int compar(const void *p1, const void *p2)
{
    // Code implementation
}
return strcmp(((struct intrinsic *)p1)->name,
    ((struct intrinsic *)p2)->name);
}

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p1, struct
    alisp_object * p2)
{
    struct alisp_object * p3;
    struct intrinsic key, *item;

    key.name = p1->value.s;

    if ((item = bsearch(&key, intrinsics,
        sizeof intrinsics / sizeof intrinsics[0],
        sizeof intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((item = bsearch(&key, snd_intrinsics,
        sizeof snd_intrinsics / sizeof snd_intrinsics[0],
        sizeof snd_intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
        delete_object(instance, p1);
        return eval_func(instance, p3, p2);
    } else {
        lisp_warn(instance, "function `%s' is undefined", p1->value.s);
        delete_object(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (funcall function args...)
 */
static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

    if (!alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) &
        !alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "expected an function name");
    }
delete_tree(instance, p);
delete_tree(instance, cdr(args));
delete_object(instance, args);
return &alsa_lisp_nil;
}
p1 = cdr(args);
delete_object(instance, args);
return eval_cons1(instance, p, p1);

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p)
{
    struct alisp_object * p1 = car(p), * p2;

    if (p1 != &alsa_lisp_nil && alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER)) {
        if (!strcmp(p1->value.s, "lambda"))
            return p;
    } else {
        delete_tree(instance, p);
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_IDENTIFIER:
        struct alisp_object *r = incref_tree(instance, get_object(instance, p));
        delete_object(instance, p);
        return r;
    case ALISP_OBJ_INTEGER:
    case ALISP_OBJ_FLOAT:
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_POINTER:
        return p;
    case ALISP_OBJ_CONS:
        return eval_cons(instance, p);
    default:
        break;
    }

    return p;
static struct alisp_object * F_eval(struct alisp_instance *instance, struct alisp_object * args)
{
    return eval(instance, eval(instance, car(args)));
}

/*
 * main routine
*/

static int alisp_include_file(struct alisp_instance *instance, const char *filename)
{
    snd_input_t *old_in;
    struct alisp_object *p, *p1;
    char *name;
    int retval = 0, err;

    err = snd_user_file(filename, &name);
    if (err < 0)
        return err;
    old_in = instance->in;
    err = snd_input_stdio_open(&instance->in, name, "r");
    if (err < 0) {
        retval = err;
        goto _err;
    }
    if (instance->verbose)
        lisp_verbose(instance, "** include filename '%s'", name);

    for (;;) {
        if ((p = parse_object(instance, 0)) == NULL)
            break;
        if (instance->verbose) {
            lisp_verbose(instance, "** code");
            princ_object(instance->vout, p);
            snd_output_putc(instance->vout, '\n');
        }
        p1 = eval(instance, p);
        if (p1 == NULL) {
            retval = -ENOMEM;
            break;
        }
        if (instance->verbose) {
            lisp_verbose(instance, "** result");
            princ_object(instance->vout, p1);
            snd_output_putc(instance->vout, '\n');
        }
    }
}
delete_tree(instance, p1);
if (instance->debug) {
lisp_debug(instance, "** objects after operation");
print_obj_lists(instance, instance->dout);
}
}

snd_input_close(instance->in);
_err:
free(name);
instance->in = old_in;
return retval;
}

int alsa_lisp(struct alisp_cfg *cfg, struct alisp_instance **_instance)
{
struct alisp_instance *instance;
struct alisp_object *p, *p1;
int i, j, retval = 0;

instance = (struct alisp_instance *)calloc(1, sizeof(struct alisp_instance));
if (instance == NULL) {
    nomem();
    return -ENOMEM;
}
instance->verbose = cfg->verbose && cfg->vout;
instance->warning = cfg->warning && cfg->wout;
instance->debug = cfg->debug && cfg->dout;
instance->in = cfg->in;
instance->out = cfg->out;
instance->vout = cfg->vout;
instance->eout = cfg->eout;
instance->wout = cfg->wout;
instance->dout = cfg->dout;
INIT_LIST_HEAD(&instance->free_objs_list);
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
    for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
        INIT_LIST_HEAD(&instance->used_objs_list[i][j]);
    INIT_LIST_HEAD(&instance->setobjs_list[i]);
}
init_lex(instance);

for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
        break;
    if (instance->verbose)
        lisp_verbose(instance, "** code");
princ_object(instance->vout, p);
snd_output_putchar(instance->vout, '
');
}
p1 = eval(instance, p);
if (p1 == NULL) {
    retval = -ENOMEM;
    break;
}
if (instance->verbose) {
    lisp_verbose(instance, "** result");
    princ_object(instance->vout, p1);
    snd_output_putchar(instance->vout, '
');
}
delete_tree(instance, p1);
if (instance->debug) {
    lisp_debug(instance, "** objects after operation");
    print_obj_lists(instance, instance->dout);
}
}
}

if (_instance)
    *instance = instance;
else
    alsa_lisp_free(instance);

return retval;
}

void alsa_lisp_free(struct alisp_instance *instance)
{
    if (instance == NULL)
        return;
    done_lex(instance);
    free_objects(instance);
    free(instance);
}

struct alisp_cfg *alsa_lisp_default_cfg(snd_input_t *input)
{
    snd_output_t *output, *eoutput;
    struct alisp_cfg *cfg;
    int err;

    err = snd_output_stdio_attach(&output, stdout, 0);
    if (err < 0)
        return NULL;
    err = snd_output_stdio_attach(&eoutput, stderr, 0);
    if (err < 0) {
snd_output_close(output);
return NULL;
}
cfg = calloc(1, sizeof(struct alisp_cfg));
if (cfg == NULL) {
snd_output_close(eoutput);
snd_output_close(output);
return NULL;
}
cfg->out = output;
cfg->wout = eoutput;
cfg->eout = eoutput;
cfg->dout = eoutput;
cfg->in = input;
return cfg;
}

void alsa_lisp_default_cfg_free(struct alisp_cfg *cfg)
{
snd_input_close(cfg->in);
snd_output_close(cfg->out);
snd_output_close(cfg->dout);
free(cfg);
}

int alsa_lisp_function(struct alisp_instance *instance, struct alisp_seq_iterator **result,
   const char *id, const char *args, ...)
{
int err = 0;
struct alisp_object *aargs = NULL, *obj, *res;

if (args && *args != 'n') {
va_list ap;
struct alisp_object *p;
p = NULL;
va_start(ap, args);
while (*args) {
if (*args++ != '%') {
er = -EINVAL;
break;
}
if (*args++ != '\0') {
er = -EINVAL;
break;
}
obj = NULL;
err = 0;
switch (*args++) {

case 's':
    obj = new_string(instance, va_arg(ap, char *));
    break;
    case 'i':
    obj = new_integer(instance, va_arg(ap, int));
    break;
    case 'l':
    obj = new_integer(instance, va_arg(ap, long));
    break;
    case 'f':
    case 'd':
    obj = new_integer(instance, va_arg(ap, double));
    break;
    case 'p': {
        char _ptrid[24];
        char *ptrid = _ptrid;
        while (*args && *args != '%')
            *ptrid++ = *args++;
        *ptrid = 0;
        if (ptrid == _ptrid) {
            err = -EINVAL;
            break;
        }
        obj = new_cons_pointer(instance, _ptrid, va_arg(ap, void *));
        obj = quote_object(instance, obj);
        break;
    }
    default:
    err = -EINVAL;
    break;
} 
if (err < 0)
    goto __args_end;
if (obj == NULL) {
    err = -ENOMEM;
    goto __args_end;
} 
if (p == NULL) {
    p = aargs = new_object(instance, ALISP_OBJ_CONS);
} else {
    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
    p = p->value.c.cdr;
} 
if (p == NULL) {
    err = -ENOMEM;
    goto __args_end;
} 
p->value.c.car = obj;
va_end(ap);
if (err < 0)
return err;
#endif
snd_output_printf(instance->wout, ">>>");
princ_object(instance->wout, aargs);
snd_output_printf(instance->wout, "<<<\n");
#endif
err = -ENOENT;
if (aargs == NULL)
aargs = &alsa_lisp_nil;
if ((obj = get_object1(instance, id)) != &alsa_lisp_nil) {
res = eval_func(instance, obj, aargs);
err = 0;
} else {
struct intrinsic key, *item;
key.name = id;
if ((item = bsearch(&key, intrinsics,
   sizeof intrinsics / sizeof intrinsics[0],
   sizeof intrinsics[0], compar)) != NULL) {
res = item->func(instance, aargs);
err = 0;
} else if ((item = bsearch(&key, snd_intrinsics,
   sizeof snd_intrinsics / sizeof snd_intrinsics[0],
   sizeof snd_intrinsics[0], compar)) != NULL) {
res = item->func(instance, aargs);
err = 0;
} else {
res = &alsa_lisp_nil;
}
}
if (res == NULL)
er = -ENOMEM;
if (err == 0 && result) {
*result = res;
} else {
delete_tree(instance, res);
}
return 0;
}

void alsa_lisp_result_free(struct alisp_instance *instance,
   struct alisp_seq_iterator *result)
{delete_tree(instance, result);
}

int alsa_lisp_seq_first(struct alisp_instance *instance, const char *id,
struct alisp_seq_iterator **seq)
{
struct alisp_object * p1;

p1 = get_object1(instance, id);
if (p1 == NULL)
    return -ENOMEM;
*seq = p1;
return 0;
}

int alsa_lisp_seq_next(struct alisp_seq_iterator **seq)
{
struct alisp_object * p1 = *seq;

p1 = cdr(p1);
if (p1 == &alsa_lisp_nil)
    return -ENOENT;
*seq = p1;
return 0;
}

int alsa_lisp_seq_count(struct alisp_seq_iterator *seq)
{
int count = 0;

while (seq != &alsa_lisp_nil) {
    count++;
    seq = cdr(seq);
}
return count;
}

int alsa_lisp_seq_integer(struct alisp_seq_iterator *seq, long *val)
{
if (alisp_compare_type(seq, ALISP_OBJ_CONS))
    seq = seq->value.c.cdr;
if (alisp_compare_type(seq, ALISP_OBJ_INTEGER))
    *val = seq->value.i;
else
    return -EINVAL;
return 0;
}
int alsa_lisp_seq_pointer(struct alisp_seq_iterator *seq, const char *ptr_id, void **ptr)
{
    struct alisp_object * p2;

    if (alisp_compare_type(seq, ALISP_OBJ_CONS) &&
        alisp_compare_type(seq->value.c.car, ALISP_OBJ_CONS))
        seq = seq->value.c.car;
    if (alisp_compare_type(seq, ALISP_OBJ_CONS)) {
        p2 = seq->value.c.car;
        if (!alisp_compare_type(p2, ALISP_OBJ_STRING))
            return -EINVAL;
        if (strcmp(p2->value.s, ptr_id))
            return -EINVAL;
        p2 = seq->value.c.cdr;
        if (!alisp_compare_type(p2, ALISP_OBJ_POINTER))
            return -EINVAL;
        *ptr = (void *)seq->value.ptr;
    } else
        return -EINVAL;
    return 0;
}

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jar/org/apache/cassandra/db/partitions/ImmutableBTreePartition.java
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* /opt/ws_local/PERMITS_SQL/1046095248_1589850979.66/0/cassandra-all-3-11-6-sources-
jar/org/apache/cassandra/utils/btree/TreeBuilder.java
* /opt/ws_local/PERMITS_SQL/1046095248_1589850979.66/0/cassandra-all-3-11-6-sources-
jar/org/apache/cassandra/utils/memory/MemtableAllocator.java
* /opt/ws_local/PERMITS_SQL/1046095248_1589850979.66/0/cassandra-all-3-11-6-sources-
jar/org/apache/cassandra/tools/StandaloneScrubber.java
* /opt/ws_local/PERMITS_SQL/1046095248_1589850979.66/0/cassandra-all-3-11-6-sources-
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* /opt/ws_local/PERMITS_SQL/1046095248_1589850979.66/0/cassandra-all-3-11-6-sources-jar/org/apache/cassandra/db/transform/FilteringTransformation.java
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/**
* Function to skip cells (from an iterator) that are not part of those queried by the user
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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
Kervonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frederic
Marvevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
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Sendn, Abel
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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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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
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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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gobject-introspection has two licenses; one for the typelib library, and one for the tools.

The scanner (giscanner/) and typelib libraries (girepository/) are licensed under the LGPLv2+. See the file COPYING.LGPL.

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1.903 less 481 2.1ubuntu0.2
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrifty.ll
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
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lib/csharp/src/Transport/TServerSocket.cs
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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
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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>.

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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSDLIB_LIB)

$(RM) -rf $(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-slshibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB)

install-strip: install
install-slshibs-strip: install-slshibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_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>.

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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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repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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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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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.

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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
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     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
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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
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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
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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 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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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
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use both them and the Library together in an executable that you
distribute.

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Gadi Oxman, August 1995

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Version 2, June 1991

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

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

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Appendix: How to Apply These Terms to Your New Programs

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1.921 e2fsprogs 1.42.9 16.el7
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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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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# 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) $(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-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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Theodore Ts'o
23-June-2007

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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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Index: tdbsa/tdb.c
--- tdba.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

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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>,
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Sources

1.926 logback-core 1.2.3

1.927 patch 2.7.6 2ubuntu1.1

1.927.1 Available under license:

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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University

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Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

   I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

   That's great!

   Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).
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1.932 cryptsetup 2.0.3 5.el7
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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
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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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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"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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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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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 contribu-
tions 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 CONTRIBUTION 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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- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- web-app_4_0.xsd
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1.956 musl 3.1.0

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1.957 gcc-defaults 5.3.1 1ubuntu1

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" Automatically generated by Pod::Man v1.34, Pod::Parser v1.13"  
" Standard preamble:"  
" ========================================================================
.de Sh " Subsection heading  
.br  
.if t .Sp  
.ne 5  
.PP  
\FB\VS I\FR  
.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
Set up some character translations and predefined strings. \(*-- will
\(*PI will give pi, \(*L" will give a left
\(*R" will give a right double quote. \(| will give a
\(*C will give a nicer C++. Capital omega is used to
\(*C' and \(*C'
\(*" expand to " in nroff, nothing in troff, for use with C<>.

\tr \(*W-|\t|\n\ds C+ C\^-1v\^h-1p\^u-2+v\^h-1p^+|v\^s0v\^1v\^h-1p^+\t|\n\ie n \{|\n  . \ds -- \(*W-
  . \ds PI pi
  . if (n(\(H=4u)&(1m=24u) .ds -- \(*W\^h-12u\^\(*W\^h-12u\^\(*L" diablo 10 pitch
  . if (n(\(H=4u)&(1m=20u) .ds -- \(*W\^h-12u\^\(*W\^h-8u\^\(*L" diablo 12 pitch
  . \ds L" \
  . \ds R" "
  . \ds C" "
  . \ds C" "
  'br\}
\el\{|\n  . \ ds -- \(|\(em\}
  . \ ds PI \^p
  . \ ds L" "
  . \ ds R" "
  'br\}\\
\}{\n\if \nF \{|\n  . \de IX
  . \tm Index:\$1\tm%n\mt\m\$2"
.. \nr % 0
.. \rr F
\}
\}
\}\\
For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.
\hy 0
\if n .na
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 #I M1
  ds #] \P
\}

```

simple accents for nroff and troff

```
if n \{
  ds ' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds / \&
\}

```

troff and (daisy-wheel) nroff accents

```
if t \{
  ds \k:h'-(\n(w.u*8/10-*(#H)\v')\n:u'
  ds \k:h'-(\n(w.u*8/10-*(#H)\v')\n:u'
  ds ^ \k:h'-(\n(w.u*10/11-*(#H)\v')\n:u'
  ds \k:h'-(\n(w.u*8/10)'\n:u'
  ds \k:h'-(\n(w.u*8/10)\v'-.4m'^v'.4m'
  ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
\}

```

troff and (daisy-wheel) nroff accents

```
ds \k:h'-(\n(w.u*8/10-*(#H)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
ds \k:h'-(\n(w.u*8/10-*(#H)\v'(s|l)\v')\n:u'
```

corrections for vroff

```
if v .ds ~ \k:h'-(\n(w.u*9/10-*(#H)s-2u-\v'(s|l)\v')\n:u'
if v .ds ^ \k:h'-(\n(w.u*10/11-*(#H)\v'-4m'\v'.4m'\v')\n:u'
```

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\" 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
\" ================================
\".
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.TH GPL 7 "2003-03-01" "gcc-3.3" "GNU"
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh "\ls-1GNU\ls0 \ls-1GENERAL\ls0 \ls-1PUBLIC\ls0 \ls-1LICENSE\ls0"
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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

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The snowball stemmers in
```java
analysis/common/src/java/net/sf/snowball
```
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
```java
analysis/common/src/resources/org/apache/lucene/analysis/snowball
```
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
```java
http://snowball.tartarus.org/
```

The KStem stemmer in
```java
analysis/common/src/org/apache/lucene/analysis/en
```
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
```java
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
```
The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smarten) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.982 etcd-raft 3.1.20

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1.983 oniguruma 6.7.0 1

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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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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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1.1010 alpine-baselayout 3.1.0-r3

1.1011 jline 0.9.94
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1.1012 free-type 2.8.1-r2

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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
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#
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src/pcf/pcf.c
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src/pcf/pcfutil.c
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src/gzip/infblock.c
src/gzip/infblock.h
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2006-Jan-27

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1.1018 busybox 1.30.1-r4

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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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Source Package: xorg

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

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1.1031 structs 1.1.0

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1.1034 invokebinder 1.11

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```perl
# For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge(
    #print Data::Dumper -> Dump(
    #    merge(
    #        #[qw(a b c d h i j)], # ancestor
    #        #[qw(a b c d f h i j)], # left
    #        #[qw(a b c e g ]), # right
    #        [qw(0 1 2 3 4 7 9 b)],
    #        [qw(0 6  8 a b)],
    #        [qw(0 1 2 3 5 8 a b)],
    ##
    
    #    CONFLICT => sub ($S) { ( q{<}, @_{0}[0], q{[}. @{$[0]}. q{]}. @{$[1]}. q{>} ) },
    #    ), "\n";
    #)), "\n";
    #print join(" ", @}
=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(
    @ancestor, @a, @b, {
        CONFLICT => sub { }
    })
;

@merged = merge(
    @ancestor, @a, @b, {
        CONFLICT => sub { }
    }, $key_generation_function)
;

$merged = merge(
    @ancestor, @a, @b, {
        CONFLICT => sub { }
    })
;

$merged = merge(
    @ancestor, @a, @b, {
        CONFLICT => sub { }
    }, $key_generation_function)
;

@diff = diff3(
    @ancestor, @a, @b);

@diff = diff3(
    @ancestor, @a, @b, $key_generation_function);

$diff = diff3(
    @ancestor, @a, @b);

$diff = diff3(
    @ancestor, @a, @b, $key_generation_function);

@trav = traverse_sequences3(
    @ancestor, @a, @b, {
        # callbacks
    })
;

@trav = traverse_sequences3(
    @ancestor, @a, @b, {
        # callbacks
    })
;
# callbacks

$trav   = traverse_sequences3($@ancestor, $@a, $@b, {
    # callbacks
});

$trav   = traverse_sequences3($@ancestor, $@a, $@b, {
    # callbacks
}, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the 'original' list. The second list is the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C@$ancestor$, C@$a$, and C@$b$, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

q{ <!-- ------ START CONFLICT ------ -->},
(@left),
q{ <!-- ---------------------------- -->},
(@right),
q{ <!-- ------  END  CONFLICT ------ -->},

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.
The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two
sequences at the current position.  
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the 
third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that 
corresponds to the elements at the given positions in the first and 
second sequences.

If three arguments, then the element at the given position in the third 
sequence is different than the corresponding element in the other two 
sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the 
current position. The three arguments are the current positions within 
each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above 
example does not work, send it to <jsmith@cpan.org> or report it on 
<http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of 
C<traverse_sequences> may not be symmetric with respect to the input 
sequences if the second and third sequence are of different lengths. 
Because of this, C<traverse_sequences3> will calculate the diffs of 
the second and third sequences as passed and swapped. If the differences 
are not the same, it will issue an `Algorithm::Diff::diff is not symmetric 
for second and third sequences...' warning. It will try to handle 
this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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NAME
   Algorithm::Merge - Three-way merge and diff

SYNOPSIS
   use Algorithm::Merge qw(merge diff3 traverse_sequences3);

   @merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub {  }
   });

   @merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub {  }
   }, $key_generation_function);

   $merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub {  }
   });

   $merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub {  }
   }, $key_generation_function);

   @diff = diff3(\@ancestor, \@a, \@b);

   @diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

   $diff = diff3(\@ancestor, \@a, \@b);

   $diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

   @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   });

   @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   }, $key_generation_function);

   $trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   });
# callbacks

```
$trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
}, $key_generation_function);
```

**USAGE**

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

**diff3**

Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'r', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```
The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

q{<!- ------ START CONFLICT ------ -->},
(@left),
q{<!- ---------------------------- -->},
(@right),
q{<!- ------  END  CONFLICT ------ -->},

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with
one, two, or three arguments.

If one argument, then only the element at the given position from
the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence
that corresponds to the elements at the given positions in the
second and third sequences.

If three arguments, then the element at the given position in the
first sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.

B_DIFF
This is called if the second sequence is different than the other
two sequences at the current position. This callback will be called
with one, two, or three arguments.

If one argument, then only the element at the given position from
the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence
that corresponds to the elements at the given positions in the first
and third sequences.

If three arguments, then the element at the given position in the
second sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.

C_DIFF
This is called if the third sequence is different than the other two
sequences at the current position. This callback will be called with
one, two, or three arguments.

If one argument, then only the element at the given position from
the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence
that corresponds to the elements at the given positions in the first
and second sequences.

If three arguments, then the element at the given position in the
third sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.
CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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1.1038 libffi 3.2.1 6

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1.1039 eclipse 3.7.1.R37x_v20110808-1106

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

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

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

org.mortbay.jasper:apache-el
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1041 attr 2.4.47 2build1
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cprocfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.1054 libalgorithm-diff-xs-perl 0.04-5

1.1055 glibc 2.24 11+deb9u1

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1.1065.1 Available under license:

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0+"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

builddir="$srctree/libart_lgpl-$pkgver"

prepare() {
  cd "$builddir"
  update_config_sub
  default_prepare
}

build() {
  cd "$builddir"
  ./configure
     --build=$CBUILD
     --host=$CHOST
     --prefix=/usr
  make
}

package() {
  cd "$builddir"
  make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
--- a/main.c
+++ b/main.c
@@ -33,7 +33,7 @@
#include "extern.h"

#define AGREEMENT "https://letsencrypt.org" 
-  "/documents/LE-SA-v1.1.1-August-1-2016.pdf"
#define SSL_DIR "/etc/ssl/acme"
#define SSL_PRIV_DIR "/etc/ssl/acme/private"
#define ETC_DIR "/etc/acme"

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--- a/CMake/utility.cmake
+++ b/CMake/utility.cmake
@@ -165,7 +165,7 @@
 getNameOfDir(CMAKE_CURRENT_SOURCE_DIR DIRNAME)
 if (${shouldInstall})
     if (NOT ${FULL_HEADER_PATH} MATCHES ".*_p.h$") # we don't want to install header files which are marked as private
-        install(FILES ${FULL_HEADER_PATH} DESTINATION "include/${DIRNAME}/${REL_PATH}" PERMISSIONS OWNER_READ)
+        install(FILES ${FULL_HEADER_PATH} DESTINATION "include/${DIRNAME}/${REL_PATH}" PERMISSIONS OWNER_READ)
     endif()
     install(FILES ${FULL_HEADER_PATH} DESTINATION "include/${DIRNAME}/${REL_PATH}" PERMISSIONS OWNER_READ)
install(FILES ${FULL_HEADER_PATH} DESTINATION "include/${DIRNAME}/${REL_PATH}")
endif()
endif()
endforeach()
mini_sendmail - accept email on behalf of real sendmail

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# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
__pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=3
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$__pkgreal-$pkgver.tar.gz"

builddir="$srctree/$__pkgreal-$pkgver"

prepare() {

default_prepare
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
make
}

check() {
make test
}

package() {
make DESTDIR="${pkgdir}" install
find "${pkgdir}" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85" BSD-Resource-1.2911.tar.gz"

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if any, to sign a "copyright disclaimer" for the program, if necessary.
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diff --git a/tests/t0501-duplicate.sh b/tests/t0501-duplicate.sh
index 66d321a..0520131 100644
--- a/tests/t0501-duplicate.sh
+++ b/tests/t0501-duplicate.sh
@@ -18,7 +18,11 @@
 . "${srcdir=/}.init.sh"; path_prepend ../parted .

 +arch=$(uname -m)
 for t in msdos gpt bsd; do
 +    if [ "$t" = bsd ] && [ "arch" = "s390x" ]; then
 +        continue
 +    fi
   duplicate $t || fail=1
 done

# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.7
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check"
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
 cd "$builddir"
}
package() {
    mkdir -p "$pkgdir"
}

__subpkg() {
    local type=${subpkgname/$pkgname/-}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in $builddir/text/*.txt; do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}

sha512sums="24b017bc9b3188710bed1015c1fcd6920e13a44b68c9d6ccaca129c1fb059abbe16d31ae24b7c1714a8273
bf6da1105155b85ba4fb6efdd93aa76dc4c10f832b12  license-list-data-3.7.tar.gz"
/*
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 *
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 */
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgnam=py3-flake8-copyright
__pkgnam=flake8-copyright
pkgver=0.2.2
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux flakes8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname-${_pkgname}-tar.gz"
builddir="$srcdir/${_pkgname}-${_pkgname}"

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=${_pkgver}-r${_pkgrel}" # Backwards compatibility

build() {
    python3 setup.py build
}

package() {
    python3 setup.py install --prefix=/usr --root="${pkgdir}"
}

sha512sums="8ade49f386e67d14e4b826946b947454cf2502ff249a9abd359f61fa42ebc2b17dd465708894cf82fffd153f0be1bed746464220d40d94d4c1b07940ec280f28 flake8-copyright-0.2.2.tar.gz"

1.1066 netty 4.1.18
1.1066.1 Available under license :

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IRQ8>Y/*XZ8]\LX1~11_fg7s{[^n]W:_2]csqpu9x2lETH=a-v\1'/dl1:4F&U5xY~VBEGA?)i07pk"iK3)
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1f+U7L*,STs,VIow*Mk0p_5S[n,A**h"\"YNKQvOj<RT2`eC@Br-KuY.czg~\&VwJ6W]Z>0E:jjs~OG_g+8?<SO7@-AQR+&Uz+GL8UODo9wTSV"vCYjiWmnz^pKj^d^V[NjW]xj[^U#
&V~/Gl[JJ`y}rgaq[M]OL>0av
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kn.Emkhuo->SY^_3p^P#;e; c
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bDKe*+Ha:HC:<kfV5fZu,Tr<j
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ZNlc5a8.1y7z7K1w{l4*O#Bv- m)DSTRG R:Fp0o0V00B#c=4sKVY0p4P@4c4gqO*82myazQ<_/],.*Zm_Me.
nKbdE^0"yTdi$Vul=Q HJJ_kOyZH;+:Wb=U'x m
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1.1068 zlib 1.2.11-r3
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1.1069 ustr 1.0.4-5

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1.1070 apk-tools 2.10.3-r1

1.1071 ecj 4.4.2
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1.1078 cyrus-sasl 2.1.26.dfsg1-13+deb8u1

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The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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program.

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

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

#!/usr/local/bin/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 $/ = "

        return $readme_year = (gmtime)[5] + 1900;
    }

=cut
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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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

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version: 3

1.1084 openssl 1.0.2u-1~deb9u1

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Email domain: cam.ac.uk

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

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

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

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

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

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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pkgver=3.8
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check"
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srctdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdftnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="\$subpackages $pkgname-$type:_subpkg"
done

build() {
    cd "$builddir"
}

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname"
    mkdir -p "$subpkgdir/"usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir/"usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir/"usr/share/spdx
    local i; for i in $builddir/text/*.txt; do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir/"usr/share/spdx/license.lst
    done
}

sha512sums="0950540df050fb7f7ce92f5ad1bf756725e233d701f0c5b2fc5bfa85da65bba3400de7fd78b4b1d8a41deab4e461a5f1018f4869d9f3e0428a5a64c32c01c60 license-list-data-3.8.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=4
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
    default_prepare
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \(! -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
 dfa5417f663b8065ba65f4fea16dc9262728b3b6b85  BSD-Resource-1.2911.tar.gz'"
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pkgver=0.2.2
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
option="!check" # No testsuite
url="https://github.com/savoirfairelinuxflake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
source="https://files.pythonhosted.org/packages/source/${__pkgname:0:1}/${__pkgname}/${__pkgname}-${pkgver}.tar.gz"
builddir="Srcdir"/${__pkgname}-${pkgver}
Open Source Used In cnBR 20.2-06042020  12376

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    python3 setup.py build
}

package() {
    python3 setup.py install --prefix=/usr --root="$pkgdir"
}

sha512sums="8ade49f386e67d14e4b826946b947454cf2502ff249a9ab1d359f61fa42ebc2b17dd465708894cf82fffd153f0be1bed746464220d40d9d4d1b07940ec280f28  flake8-copyright-0.2.2.tar.gz"

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see http://www.sqlite.org/copyright.html
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

builddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
    update_config_sub
    default_prepare
}

build() {
    ./configure \
    --build=$CBUILD \ 
    --host=$CHOST \ 
    --prefix=/usr
    make
} 
```
package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171f9ae326af1b133725beba28f7e7
    6654309e001ae9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"

1.1104 grep 2.25 1~16.04.1
1.1104.1 Available under license:
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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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cmd/krb5/iprop/iprop_hdr.h

cmd/krb5/kadmin/server/ipropd_svc.c

cmd/krb5/kproplog/kproplog.c

cmd/krb5/slave/kpropd_rpc.c

lib/gss_mechs/mech_krb5/et/kdb5_err.c

lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h

lib/gss_mechs/mech_spnego/mech/spnego_mech.c

lib/krb5/kadm5/kadm_host_srv_names.c

lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c

lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c

lib/libgss/g_acquire_cred.c

lib/libgss/g_canon_name.c

lib/libgss/g_compare_name.c

lib/libgss/g_context_time.c

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lib/libgss/g_dsp_name.c

lib/libgss/g_dsp_status.c

lib/libgss/g_dup_name.c

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lib/libgss/g_glue.c

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lib/libgss/g_rel_cred.c

lib/libgss/g_rel_name.c

lib/libgss/g_rel_oid_set.c

lib/libgss/g_seal.c

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lib/libgss/g_store_cred.c

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```
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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<li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>
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<li>Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
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<li>Thomas Houtekier &lt;Thomas.Houtekier#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.</li>
<li>Don Hillsberry &lt;hillsber#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>
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<li>Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the openSSL PEM processing.</li>
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- Ralf Hauser &lt;ralfhauser@04gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.
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- Ian Haywood &lt;ian@04haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.
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Filipe Silva &lt;filipe.silva#064woedconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

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.

Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.

Tom Cargill &lt;tcar&gILLA#064profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;cBreitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

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

Nicola Scendoni &lt;nicola.scl#064babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&auml; &lt;ville.skytt&gilla#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.

Bruce Gordon &lt;bruce.gordon#064savvis.net&gt; - patch to secret key creation encoding NullPointerExce&nbsption in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amolin#064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;CarlosLozano#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

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

Joni Hakala &lt;joni.hakala#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"&gt;EGEE project&lt;/a&gt; for making the work available.

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

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 (GOBF) and GOST-3411.

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

Atsuhiko Yamakata &lt;ymnak#064craft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer#tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

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.

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

- Dirk Eisner &lt;D.Eisner&#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.
- Julien Pasquier &lt;JulienPasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso&#064libero.it&gt; - sequence path to ASN1Dump.
- Andrew Paterson &lt;andrew.paterson&#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adloEOFlo&#064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vasiliev &lt;paulvas&#064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom&#0644tnux.net&gt; - addition of DES-EDE encryption for RSA PRIVATE Keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064gmai.com&gt; - fix to 31 byte issue and exception throwing by Whirlpool.
- 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.
- Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees&#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee&#064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke &lt;Brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.
- 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-CMAC and DESede-CMAC to JCE provider.
- David Josse &lt;David.Josse&#064TransactTools.net&gt; - Patch for trailer function in version 2 signature packets.
- 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.
- Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in
JDKKeyFactory.

Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christianat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc&#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.

J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerrstand&#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 ECPontonUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos 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.

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&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,
Open Source Used In cnBR 20.2-06042020

- addition of crlAccessMethod in X509ObjectIdentifiers.

- initial implementation of RSA blinding for signatures.

- initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- initial implementation of CRL and Sequence evaluation.

- "just in time" modifications for CRL and Sequence evaluation.

- better exception handling in CMS enveloping.

- addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

- patch for alternate data type recognition in CMSSignedDataParser.

- patches towards improved Sun/default provider support in CMS.

- patches for supporting empty subject in X.509 certificate generation.

- NoneWithECDSA, updates to KeyPurposeId.

- fix for named curve recognition in ECOST key generation.

- addition of getTsa() to TimeStampTokenInfo.

- initial implementation of VMPc cipher, VMPcRandomGenerator, VMPcMac.

- fix for issue in OpenPGP examples.

- support for counter signature reading in CMS API, update for multiple counter signature attributes.

- security manager patch for PKCS1Encoding property check.

- improved exception handling for getInstance() in ASN.1 library.

- patch to construtor for CRMF CertSequence.

- identified a bug in ASN.1 library with handling of unterminated NDEF's.

- patch to TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

- identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- identified problem with EAX.

- identified problem with PKCS1Encoding.
Alex Dupre &lt;ale@FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider
[#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest
[#BIA-102].

Michael Schoene &lt;michael@sigrid-und-michael.de&gt; - fix of improper handling of null in
ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in
TimeStampResponse.validate().

Ion Larrañntilde;aga &lt;ilarra@FreeBSD.org&gt; - fix to default partial packet generation in
BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@we.de&gt; - backport for PKIXCertPathValidotor and
SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room
JCE patches.

Rui Hodai &lt;rui@FreeBSD.org&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@FreeBSD.org&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;torbe79@FreeBSD.org&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycake@yahoo.com&gt; - explicit bounds checking for DESKeyGenerator, code
simplification for OAEPEncoding.

Henrik Andersson &lt;k.henrik.andersson@gmail.com&gt; - addition of UniqueIssuerID to certificate
generation.

Cagdas Cirit &lt;cagdasciric@FreeBSD.org&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@FreeBSD.org&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahrenriques@FreeBSD.org&gt; - explicit bounds checking for DESKeyGenerator, code
simplification for OAEPEncoding.

Lothar Kimmeringer &lt;job@kimmeringer.de&gt; - verbose mode for ASN1Dump, support for
DERExternal.

Richard Farr &lt;rfarr.se@FreeBSD.org&gt; - SRP-6a implementation.

Thomas Castiglione &lt;castiglione@FreeBSD.org&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@FreeBSD.org&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;rlundgren@FreeBSD.org&gt; - CMPCertificate constructor from
X509CertificateStructure fix.

Petr Kadleec &lt;mormegil@FreeBSD.org&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@FreeBSD.org&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat@FreeBSD.org&gt; - fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann@FreeBSD.org&gt; - patch for PKCS12 key store to support more flexible
attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@FreeBSD.org&gt; - name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC
naming conventions.

Chris Cole &lt;chris_h_cole@FreeBSD.org&gt; - identified a problem handling null passwords when loading a
BKS keystore.

Tomas Krivanek &lt;tom@FreeBSD.org&gt; - added checking of Sender header to SignedMailValidator.

Michael &lt;michael@FreeBSD.org&gt; - correction of field error in getResponse method in
CertRepMessage.

Trevor Perrin &lt;trevor@FreeBSD.org&gt; - addition of constant time equals to avoid possible timing
attacks.

Markus Kil@arings &lt;markus@FreeBSD.org&gt; - several enhancements to
TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith&#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan&#064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoo&#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;nessche&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa&#064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo&#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten&#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden&#064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Michaël Laing &lt;mickael.laing&#064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu&#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;bernd&#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak&#064bekk.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid&#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz&#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov &lt;p.petrov&#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>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.</li>
<li>Andy Neilson &lt;Andy.Neilson&#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new
PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rf6Y7VzLvd2EUVW99v3yNV31WROG8.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 AEAD.

Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;phil_b@#064gahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidè&eacute;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 Memoable 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, XSalts20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon 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 bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@#064primekey.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;t5555d@#064gmail.com&gt; initial cut of DVCS classes.

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

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

Daniel Hirscher &lt;dev@#064daniel-hirscher.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.

Matti 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.

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

Eric M&amp;uuml;ller &lt;eric.mueller@#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@#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.grasso86@#064gmail.com&gt; contributions to final Key calculation code for SRP6.
<li>Andrey Utkin &lt;cindrhc&#064;gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes./li>
<li>Arnis Tartu &lt;arnis&#064;ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder./li>
<li>Roberto Tyley &lt;rtyley&#064;gmail.com&gt; further work on completing grandle build./li>
<li>Waldemar Dick &lt;wdick&#064;devmue.de&gt; code improvement in x500 ASN.1 package./li>
<li>Sid Steward &lt;sid.steward&#064;pdfilabs.com&gt; code improvements to ASN1Boolean./li>
<li>Axel VDB &lt;axel-vdb&#064;riseup.net&gt; initial implementation of Shacal2./li>
<li>Oliver Ehli &lt;ehli&#064;arago.de&gt; Additional support for BSI plain ECDSA in the provider./li>
<li>Maurice Aarts &lt;aarts&#064;4rise.com&gt; updated to KDF generator to follow NIST SP 800-108./li>
<li>Robert Bushman &lt;rouncycastle&amp;#064;traxel.com&gt; Clean up of DirectKeySignature example./li>
<li>Daniel Heldt &lt;Daniel.Heldt&#064;cryptovision.com&gt; Initial support for encodable state message digests./li>
<li>Jens Kapitza &lt;j.kapitza&#064;schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API./li>
<li>Johan Eklund &lt;johan&#064;primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers./li>
<li>Andreas Reiter &lt;andreas.reiter&lt;iaik.tugraz.at&gt;&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix./li>
<li>Kieran Miller &lt;kieran.miller&amp;#064;gmail.com&gt; initial implementation for RFC 5649 key wrap with padding./li>
<li>Oliver Ehli &lt;ehli&amp;#064;arago.de&gt; Additional support for BSI plain ECDSA in the provider./li>
<li>Oliver Ehli &lt;ehli&amp;#064;arago.de&gt; Additional support for BSI plain ECDSA in the provider./li>
<li>Maurice Aarts &lt;aarts&amp;#064;4rise.com&gt; updated to KDF generator to follow NIST SP 800-108./li>
<li>Robert Bushman &lt;rouncycastle&amp;#064;traxel.com&gt; Clean up of DirectKeySignature example./li>
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<li>Jens Kapitza &lt;j.kapitza&amp;#064;schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API./li>
<li>Johan Eklund &lt;johan&amp;#064;primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers./li>
<li>Andreas Reiter &lt;andreas.reiter&amp;#064;iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix./li>
<li>Kieran Miller &lt;kieran.miller&amp;#064;gmail.com&gt; initial implementation for RFC 5649 key wrap with padding./li>
<li>Oliver Ehli &lt;ehli&amp;#064;arago.de&gt; Additional support for BSI plain ECDSA in the provider./li>
<li>Daniel Heldt &lt;Daniel.Heldt&amp;#064;cryptovision.com&gt; Initial support for encodable state message digests./li>
<li>Robert Bushman &lt;rouncycastle&amp;#064;traxel.com&gt; Clean up of DirectKeySignature example./li>
<li>Maurice Aarts &lt;aarts&amp;#064;4rise.com&gt; updated to KDF generator to follow NIST SP 800-108./li>
<li>Robert Bushman &lt;rouncycastle&amp;#064;traxel.com&gt; Clean up of DirectKeySignature example./li>
<li>Daniel Heldt &lt;Daniel.Heldt&amp;#064;cryptovision.com&gt; Initial support for encodable state message digests./li>
<li>Jens Kapitza &lt;j.kapitza&amp;#064;schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API./li>
<li>Johan Eklund &lt;johan&amp;#064;primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers./li>
<li>Nikos Stavrou &lt;nikosn&amp;#064;gmail.com&gt; Fix to encoding of EC private keys to ensure encoding matches order length./li>
<li>Axel von dem Bruch &lt;axel-vdb&amp;#064;riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest./li>
<li>Derek Atkins &lt;derek&amp;#064;ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers./li>
<li>Peter Jr Halicky &lt;peter&amp;#064;halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator./li>
<li>LartiguePierre &lt;lartiguePierre&amp;#064;github.com&gt; Fix for counter signature SID in CMSSignedData./li>
<li>Thomas Belot &lt;thomas.belot+BC&amp;#064;gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue./li>
<li>Rich DiCroce &lt;richdicroce&amp;#064;github.com&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage./li>
<li>Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schürmann &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.</li>
<li>Michael &lt;https://github.com/MSKnete&gt; initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner &lt;https://github.com/tobias.wagner&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;https://github.com/sgiro&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 PBKEyes that require it.</li>
<li>Bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Jan Willem Janssen &lt;j.w.janssen@bouncycastle.org&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;william77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>Jdvorak001 &lt;jdvorak001@gmail.com&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele &lt;jnaegele@grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;gilgirakzi@#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@robotron.de&gt; patch to deal with hard coded boolean in EAC ECDSAPublisher.</li>
<li>Alexandr Krivoshta &lt;#064ya.ru&gt; N4 calculation fix to GOFB mode.
Artem Storozhuk &lt;storojs72@#064gmail.com&gt;: N4 calculation fix to GOFB mode.
Na Yu &lt;na.yu@#064samsung.com&gt;: Constructor patches to CMC PKIData.
Evangelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt;: Corrected use of explicit tagging in X.509 PolicyConstraints class.
VivleSoren &lt;https://github.com/VivleSoren&gt;: additional constructor for McElieceCCA2PrivateKeyParameters.
Sebastian WolfgangRoland &lt;sebastianwolfgang.roland@#064stud.tu-darmstadt.de&gt;: Initial XMSS/XMSS-MT implementation.
Mike Safonov &lt;https://github.com/MikeSafonov&gt;: initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
Artem Storozhuk &lt;storojs72@#064gmail.com&gt;: initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
Andreas Glaser &lt;andreas.glaser@#064gi-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.
jminer &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;scott@#064bit3consulting.com&gt;: performance fixes for CTRSP800DRBG.
David Strawn &lt;https://github.com/isomartec&gt;: fix for off by one error in SCRYPT bounds checking.
chris mccown &lt;0xchrismccown@#064gmail.com&gt;: identification of serialisation issue with XMSS/XMSS-MT private keys (see also CVE-2018-1000613).
Andreas Kretschmer &lt;https://github.com/Akretsch&gt;: NPE fix for CertTemplate.getVersion().
Armin Lunkeit, Michael Tautenahn &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/flooey&gt;: use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd &lt;https://github.com/ecki&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/vanitasvitae&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/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAcoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier@064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
</ul>

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1.1112 jackson-module-parameter-names

2.9.10

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

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

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

That's all there is to it!  
(This file is under construction.)-*- text -*-  

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.1126 leveldb 1.2.0

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1.1127 adduser 3.116ubuntu1

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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This option is useful when you wish to copy part of the code of
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1.1135 ruamel-yaml 0.16.0

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1.1136 lua-cjson 2.1.0

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

 Assorted

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1.1144 jackson-datatype-jsr310 2.9.10

1.1144.1 Available under license :

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1.1145 airline 0.6

1.1146 make 4.2.1 r2

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o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.

liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.

OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.

LIBLINEAR: Used for IPv6 OS classification.


On Windows only, Nmap uses:

WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.

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libgailutil: Accessibility support for GTK+.

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Written by: Philip Hazel
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Gocheck - A rich testing framework for Go

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

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1.1159 eclipse-core-contenttype 3.4.100

1.1160 xstrings 1.2.0
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1.1161 bind 9.11.4 9.P2.el7

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb5b6.

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* 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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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

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

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
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- web-common_3_0.xsd
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- jsp_2_3.xsd
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import com.sun.jna.AltCallingConvention;

/** Tagging interface for __stdcall calling convention. */
public interface StdCall extends AltCallingConvention {}

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That's all there is to it!

1.1184 apr 1.6.3

1.1185 diffutils 3.3 5.el7
1.1185.1 Available under license :

   From RPM File Metadata:GPLv3+
   /* diff - compare files line by line


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You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define GDIFF_MAIN
#define "diff.h"
#include "assert.h"
#include "paths.h"
#include "c-stack.h"
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <preargs.h>
#include <proname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
define PROGRAM_NAME "diff"

#define AUTHORS \
proper_name ("Paul Eggert"), \
proper_name ("Mike Haertel"), \
proper_name ("David Hayes"), \
proper_name ("Richard Stallman"), \
proper_name ("Len Tower")

ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
endif

struct regexp_list
{
    char *regexps;/* chars representing disjunction of the regexps */
    size_t len;/* chars used in 'regexps' */
    size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps;/* Does 'regexps' represent a disjunction? */

struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
 recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
 On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true }; #endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
 (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
 Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum {
    BINARY_OPTION = CHAR_MAX + 1,
FROM_FILE_OPTION,
HELP_OPTION,
HORIZON_LINES_OPTION,
IGNORE_FILE_NAME_CASE_OPTION,
INHIBIT_HUNK_MERGE_OPTION,
LEFT_COLUMN_OPTION,
LINE_FORMAT_OPTION,
NO_DEREFERENCE_OPTION,
NO_IGNORE_FILE_NAME_CASE_OPTION,
NORMAL_OPTION,
SDIFF_MERGE_ASSIST_OPTION,
STRIP_TRAILING_CR_OPTION,
SUPPRESS_BLANK_EMPTY_OPTION,
SUPPRESS_COMMON_LINES_OPTION,
TABSIZE_OPTION,
TO_FILE_OPTION,

/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

/* These options must be in sequence. */
UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
  "--unchanged-group-format",
  "--old-group-format",
  "--new-group-format",
  "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
  "--unchanged-line-format",
  "--old-line-format",
  "--new-line-format"
};

static struct option const longopts[] =
{
  {"binary", 0, 0, BINARY_OPTION},
  {"brief", 0, 0, 'q'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};
/* Return a string containing the command options with which diff was invoked.
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.
If there were no options, the result is an empty string.
Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
the length of that vector. */
static char *
option_list (char **optionvec, int count)
{
int i;
size_t size = 1;
char *result;
char *p;
for (i = 0; i < count; i++)
size += 1 + shell_quote_length (optionvec[i]);
p = result = xmalloc (size);
for (i = 0; i < count; i++)
{
*p++ = ' ';
p = shell_quote_copy (p, optionvec[i]);
}
*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */
static int
exclude_options (void)
{
return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);

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int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
in
t c;
in
    i;
in
    prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */
    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
            case 0:
                break;

            case '0':
            case '1':
            case '2':
            case '3':
            case '4':
            case '5':
            case '6':
            case '7':
case '8':
case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
        \ ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
    {   
        if (optarg)
            {   
                numval = strtoumax (optarg, &numend, 10);
                if (*numend)
                    try_help ("invalid context length "'\%s"", optarg);
                if (LIN_MAX < numval)
                    numval = LIN_MAX;
            }
        else
            numval = 3;
        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;
case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "\%%=%c ifndef %s
%%</endif /* ! %s */
%c#ifdef %s
%%#error /* %s */
%cifndef %s
%%<#else /* %s */
%%#endif /* %s */
"
        char *b = xmalloc (sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%s" */
            - 8 /* 5"%%" + 3"%c" */);
        sprintf (b, C_ifdef_group_formats,
            optarg, optarg,
            optarg, optarg,
            optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value (&group_format[i], b, "-D");
        b += strlen (b) + 1;
    }
    break;

case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;
case 'h':
/* Split the files into chunks for faster processing.
   Usually does not change the result.

   This currently has no effect. */
break;

case 'H':
speed_large_files = true;
break;

case 'i':
ignore_case = true;
break;

case 'I':
add_regexp (&ignore_regexp_list, optarg);
break;

case 'T':
if (!pr_program[0])
    try_help ("pagination not supported on this host", NULL);
paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
signal (SIGCHLD, SIG_DFL);
#endif
break;

case 'L':
if (!file_label[0])
    file_label[0] = optarg;
else if (!file_label[1])
    file_label[1] = optarg;
else
    fatal ("too many file label options");
break;

case 'n':
specify_style (OUTPUT_RCS);
break;

case 'N':
new_file = true;
break;
case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$\_]\]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
                   AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;
case 'x':
    add_exclude(excluded, optarg, exclude_options());
    break;

case 'X':
    if (add_exclude_file(add_exclude, excluded, optarg,
                          exclude_options(), 'n'))
        pfatal_with_name(optarg);
    break;

case 'y':
    specify_style(OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax(optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help("invalid width '%s'", optarg);
    if (width != numval)
        fatal("conflicting width options");
    width = numval;
    break;

case BINARY_OPTION:
    #if O_BINARY
        binary = true;
        if (! isatty(STDOUT_FILENO))
            set_binary_mode(STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
    specify_value(&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage();
    check_stdout();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax(optarg, &numend, 10);
    if (*numend)
        try_help("invalid horizon length '%s'", optarg);
horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
break;

case IGNORE_FILE_NAME_CASE_OPTION:
  ignore_file_name_case = true;
  break;

case INHIBIT_HUNK_MERGE_OPTION:
  /* This option is obsolete, but accept it for backward
     compatibility. */
  break;

case LEFT_COLUMN_OPTION:
  left_column = true;
  break;

case LINE_FORMAT_OPTION:
  specify_style (OUTPUT_IFDEF);
  for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    specify_value (&line_format[i], optarg, "--line-format");
  break;

case NO_DEREFERENCE_OPTION:
  no_dereference_symlinks = true;
  break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
  ignore_file_name_case = false;
  break;

case NORMAL_OPTION:
  specify_style (OUTPUT_NORMAL);
  break;

case SDIFF_MERGE_ASSIST_OPTION:
  specify_style (OUTPUT_SDIFF);
  sdiff_merge_assist = true;
  break;

case STRIP_TRAILING_CR_OPTION:
  strip_trailing_cr = true;
  break;

case SUPPRESS_BLANK_EMPTY_OPTION:
  suppress_blank_empty = true;
  break;

case SUPPRESS_COMMON_LINES_OPTION:
suppress_common_lines = true;
break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (!(0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize ‘%s’", optarg);
    if (tabsize != numval)
    {
        if (tabsize)
            fatal ("conflicting tabsize options");
        tabsize = numval;
    }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
}
context = 3;
}
else
specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
   || defined HAVE_STRUCT_STAT_ST_SPARE1)
  time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
  time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
}
else
{
   /* See POSIX 1003.1-2001 for this format. */
   time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
   && (output_style == OUTPUT_CONTEXT
       || output_style == OUTPUT_UNIFIED)
   && (context < ocontext
       || (ocontext < context && ! explicit_context))
   context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
width = 130;

/* Maximize first the half line width, and then the gutter width, 
   according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces,
      a half line plus a gutter is an integral number of tabs,
      so that tabs in the right column line up. */

intmax_t t = expand_tabs ? 1 : tabsize;
intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),

sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    if (!line_format[i])
        line_format[i] = "\n";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD],
                        group_format[NEW], "");
}

no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
 (!*group_format[UNCHANGED]
 || (STREQ (group_format[UNCHANGED], "%=")
 & & !*line_format[UNCHANGED])))
 : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexps || ignore_white_space)));
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
}
else
{
    if (to_file)
        for (; optind < argc; optind++)
        {
            int status = compare_files (NULL, argv[optind], to_file);
            if (exit_status < status)
                exit_status = status;
        }
    else
    {
        if (argc - optind != 2)
        {
            if (argc - optind < 2)
                try_help ("missing operand after " "%s", argv[argc - 1]);
            else
                try_help ("extra operand " "%s", argv[optind + 2]);
        }
        exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
    }
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
else
{
    char *regexps = reglist->regexps;
    size_t len = reglist->len;
    bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
    size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
    size_t size = reglist->size;

    if (size <= newlen)
    {
        if (!size)
            size = 1;

        do size *= 2;
        while (size <= newlen);

        reglist->size = size;
        reglist->regexps = regexps = xrealloc (regexps, size);
    }
    if (multiple_regexps)
    {
        regexps[len++] = '\';
        regexps[len++] = '|';
    }
    memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps. */
/* This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* At least one regexp was specified. Allocate a fastmap for it. */
        reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
        if (reglist->multiple_regexps)
        {
            /* Compile the disjunction of the regexps. */
            /* (If just one regexp was specified, it is already compiled.) */
            char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                reglist->buf);
            if (m)
                error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
        }
    }
}
}
static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}
static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name (_("standard output"));
}
static char const * const option_help_msgid[] = {
N_(" --normal
output a normal diff (the default)"),
N_("-q, --brief
report only when files differ"),
N_("-s, --report-identical-files report when two files are the same"),
N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed
output an ed script"),
N_("-n, --rcs
output an RCS format diff"),
N_("-y, --side-by-side
output in two columns"),
N_("-W, --width=NUM
output at most NUM (default 130) print columns"),
N_(" --left-column
output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"",
N_("-p, --show-c-function
show which C function each change is in"),
N_("-F, --show-function-line=RE show the most recent line matching RE"),
N_(" --label LABEL
use LABEL instead of file name\n"
"
(can be repeated)"),
"",
N_("-t, --expand-tabs
expand tabs to spaces in output"),
N_("-T, --initial-tab
make tabs line up by prepending a tab"),
N_(" --tabsize=NUM
tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
N_("-l, --paginate
pass output through 'pr' to paginate it"),
"",
N_("-r, --recursive
recursively compare any subdirectories found"),
N_(" --no-dereference
don't follow symbolic links"),
N_("-N, --new-file
treat absent files as empty"),

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N_("    --unidirectional-new-file   treat absent first files as empty"),
N_("    --ignore-file-name-case ignore case when comparing file names"),
N_("    --no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("-X, --exclude-from=FILE exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE start with FILE when comparing directories"),
N_(" --from-file=FILE1 compare FILE1 to all operands\n"  " FILE1 can be a directory"),
N_(" --to-file=FILE2 compare all operands to FILE2\n"  " FILE2 can be a directory"),
N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
N_("-a, --text treat all files as text"),
N_(" --strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary read and write data in binary mode"),
#endif
N_("-D, --ifdef=NAME output merged file with 'ifdef NAME' diffs"),
N_(" --GTYPE-group-format=GFMT format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT format all input lines with LFMT"),
N_(" --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output\n"  " of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_(" GFMT (only) may contain:\n\%< lines from FILE1\n\%> lines from FILE2\n\%= lines common to FILE1 and FILE2\n\%[-][WIDTH][.PREC][doxX]LETTER printf-style spec for LETTER\nLETTERs are as follows for new group, lower case for old group:\n\%F first line number\n\%L last line number\n\%N number of lines = L-F+1\n\%E F-1\n\%M L+1\n\%(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n\%L contents of line\n\%l contents of line, excluding any trailing newline\n\%[-][WIDTH][.PREC][doxX]n printf-style spec for input line number"),
Both GFMT and LFMT may contain:

- \%c'C'  the single character C
- \%c'\OOO'  the character with octal code OOO
- C    the character C (other characters represent themselves)

-d, --minimal  try hard to find a smaller set of changes
--horizon-lines=NUM  keep NUM lines of the common prefix and suffix
--speed-large-files  assume large files and many scattered small changes
--help  display this help and exit
--version  output version information and exit
FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.
If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("Compare FILES line by line.\n"));

    fputs (_("\nMandatory arguments to long options are mandatory for short options too.\n"), stdout);

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ('\n');
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
            {
                int msglen = nl + 1 - msg;
                printf (_(" %.*s", msglen, msg);
                msg = nl + 1;
            }
            printf (_(" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
        }
    }
}
emit_bug_reporting_address();

/* Set VAR to VALUE, reporting an OPTION error if this is a
   conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
  if (*var && ! STREQ (*var, value))
  {
    error (0, 0, _("conflicting %s option value '"%s'"), option, value);
    try_help (NULL, NULL);
  }
  *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
  if (output_style != style)
  {
    if (output_style != OUTPUT_UNSPECIFIED)
      try_help (_("conflicting output style options"), NULL);
    output_style = style;
  }
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
  #ifdef STAT_TIMESPEC
  gettime (&STAT_TIMESPEC (st, st_mtim));
  #else
  struct timespec t;
  gettime (&t);
  st->st_mtime = t.tv_sec;
  #if defined STAT_TIMESPEC_NS
  STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
  #elif defined HAVE_STRUCT_STAT_ST_SPARE1
  st->st_spare1 = t.tv_nsec / 1000;
  #endif
  #endif
}
/* Compare two files (or dirs) with parent comparison PARENT and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
    #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
       that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (! ((name0 && name1)
          || (unidirectional_new_file && name1)
          || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return
           EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;

    /* cmp.file[f].desc markers */
    #define NONEXISTENT (-1) /* nonexistent file */
    #define UNOPENED (-2) /* unopened file (e.g. directory */
    #define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNODecode(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
  name0 = name1;
if (!name1)
  name1 = name0;

if (!parent)
  {
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
  }
else
  {
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
  }

/* Stat the files. */

for (f = 0; f < 2; f++)
  {
    if (cmp.file[f].desc != NONEXISTENT)
      {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
          {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
          }
        else if (STREQ (cmp.file[f].name, ".-"))
          {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
              set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
              cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
              {

""
if (S_ISREG (cmp.file[f].stat.st_mode))
    {
        off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
        if (pos < 0)
            cmp.file[f].desc = ERRNO_ENCODE (errno);
        else
            cmp.file[f].stat.st_size =
                MAX (0, cmp.file[f].stat.st_size - pos);
    }

    /* POSIX 1003.1-2001 requires current time for
     stdin. */
    set_mtime_to_now (&cmp.file[f].stat);
}
else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
    != 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}

/* Mark files as nonexistent as needed for -N and -P, if they are
 inaccessible empty regular files (the kind of files that 'patch'
 creates to indicate nonexistent backups), or if they are
 top-level files that do not exist but their counterparts do
 exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
        && (cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
                && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
                && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
                || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
                && ! parent
                && (cmp.file[1 - f].desc == UNOPENED
                || cmp.file[1 - f].desc == STDIN_FILENO))
        )
        cmp.file[f].desc = NONEXISTENT;
    
for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        {
            memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
            cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }
for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
        fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
         ? lstat (filename, &cmp.file[dir_arg].stat)
         : stat (filename, &cmp.file[dir_arg].stat))
        != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
         && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
          = (cmp.file[0].desc != NONEXISTENT
          && cmp.file[1].desc != NONEXISTENT

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&& 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
&& same_file_attributes (&cmp.file[0].stat, 
&cmp.file[1].stat))
&& no_diff_means_no_output)
{
   /* The two named files are actually the same physical file. 
   We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
   if (output_style == OUTPUT_IFDEF)
      fatal ("-D option not supported with directories");

   /* If both are directories, compare the files in them. */

   if (parent && !recursive)
   {
      /* But don’t compare dir contents one level down 
      unless -r was specified. 
      See POSIX 1003.1-2001 for this format. */
      message ("Common subdirectories: %s and %s\n",  
                  cmp.file[0].name, cmp.file[1].name);
   }
   else
      status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
|| (parent
   && !(S_ISREG (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[0].stat.st_mode))
&& (S_ISREG (cmp.file[1].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))))
{
   if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
   {
      /* We have a subdirectory that exists only in one directory. */
      
      if ((DIR_P (0) | DIR_P (1))
         && recursive
         && (new_file
         || (unidirectional_new_file
            && cmp.file[0].desc == NONEXISTENT))))
      status = diff_dirs (&cmp, compare_files);
   else
   {
      char const *dir;

      /* PARENT must be non-NULL here. */

assert (parent);
dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

/* See POSIX 1003.1-2001 for this format. */
message("Only in %s: %s\n", dir, name0);

status = EXIT_FAILURE;
}

/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5("File %s is a %s while file %s is a %s\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type(&cmp.file[0].stat),
    file_type(&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}

/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK(cmp.file[0].stat.st_mode)
    || S_ISLNK(cmp.file[1].stat.st_mode))
    /* Compare the values of the symbolic links. */
    char *link_value[2] = { NULL, NULL };
    for (f = 0; f < 2; f++)
        {
            link_value[f] = xreadlink(cmp.file[f].name);
            if (link_value[f] == NULL)
                {
                    perror_with_name(cmp.file[f].name);
                    status = EXIT_TROUBLE;
                    break;
                }
        }
    if (status == EXIT_SUCCESS)
        {
if ( ! STREQ (link_value[0], link_value[1]))
{
    message ("Symbolic links %s and %s differ\n",
        cmp.file[0].name, cmp.file[1].name);
/* This is a difference. */
    status = EXIT_FAILURE;
}
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
}
else
{/* We have two files that are not to be compared, because
   one of them is a symbolic link and the other one is not. */
message5 ("File %s is a %s while file %s is a %s\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type (&cmp.file[0].stat),
    file_type (&cmp.file[1].stat));
/* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
&& S_ISREG (cmp.file[0].stat.st_mode)
&& S_ISREG (cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
    status = EXIT_FAILURE;
}
else
{
/* Both exist and neither is a directory. */

/* Open the files and record their descriptors. */

int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
        if (cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
        { perror_with_name (cmp.file[0].name);
status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
if (same_files)
    cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}

/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);
/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc &&
        close (cmp.file[1].desc) != 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
/* Now the comparison has been done, if no error prevented it,
   and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
    {
        if (report_identical_files && !DIR_P (0))
            message ("Files %s and %s are identical
", file_label[0] ? file_label[0] : cmp.file[0].name,
    }
else
    {
        /* Flush stdout so that the user sees differences immediately.
           This can hurt performance, unfortunately. */
        if (fflush (stdout) != 0)
pfatal_with_name (_,"standard output");
}

free (free0);
free (free1);

return status;
}

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Version 3, 29 June 2007

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the 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
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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and installation of the library.

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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.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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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
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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Version 3, 29 June 2007

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

**TERMS AND CONDITIONS**

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

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

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

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

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

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

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       it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
       released under this License and any conditions added under section
       7. This requirement modifies the requirement in section 4 to
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    c) You must license the entire work, as a whole, under this
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       License will therefore apply, along with any applicable section 7
       additional terms, to the whole of the work, and all its parts,
       regardless of how they are packaged. This License gives no
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    d) If the work has interactive user interfaces, each must display
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A compilation of a covered work with other separate and independent
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and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is
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adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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

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"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.

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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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
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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.)

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

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

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

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

1.1197 gcc-defaults 7.4.0 1ubuntu2.3
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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.

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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.

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

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

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

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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
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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
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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.

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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
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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 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
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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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  0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

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.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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b) Give prominent notice with the combined library 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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.
"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

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#!/usr/bin/python
#
# Copyright (C) 2013-2017 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 + ':
            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',
'ltobsolete.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

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

        # Non-whitespace characters in a copyright holder's name.
        name = r'\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 (r'\[(Cc)opyright\]')
# 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)
    else:
        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
                    # 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 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...\n\n' 'Options:\n' % sys.argv[0])
format = '%-15s %s\n'
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('\nDirectories:\n')
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

        # Similarly params/README.
        if filename == 'README' and os.path.basename(dir) == 'params':
            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.
        ])
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('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')
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self.add_external_author('Peter Dimov')
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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.')
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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('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('libcilkrts')
    # libcilkrts is imported from upstream.
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libfortran')
# libglo 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')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
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[This is the first released version of the library GPL. It is
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========

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010
"If the F register is turned on, 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 (/nrF:/(n(g==0)) \{
.. if \nF \{
.. de IX
.. tm Index:\$1\n%\n$2"
.. if \nF==2 \{
.. nr % 0
.. nr F 2
.. \}
.. \}
.. \}
.. .rr rF

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 #\[ \f1
.. ds #\] \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 ~ ~

Open Source Used In cnBR 20.2-06042020 13582
IX Title "GPL 7"
.TH GPL 7 "2018-12-06" "gcc-7.4.0" "GNU"

" For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.
.if n .ad 1

.SH "NAME"
gpl - GNU General Public License

.SH "DESCRIPTION"
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\textbf{PP}

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```
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SEE ALSO

```
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```

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1.1201 apk-tools 2.8.2-r0

1.1202 libffi 3.2.1 4
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1.1203 base-passwd 3.5.43
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Maintainer: Colin Watson <cjwatson@debian.org>

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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 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>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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
 -
 - Copyright (C) Andrew Tridgell 2005
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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): $(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>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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### 1.1207 dbus-python 1.2.6 1

#### 1.1207.1 Available under license:

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20180516ubuntu1~18.04.1

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

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Version 3, 29 June 2007

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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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:

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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.

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Preamble

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

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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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
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

5. A program that contains no derivative of any portion of the
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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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
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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) 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.

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AES in libhcrypto

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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>
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Ty Coon, President of Vice

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1.1226 debconf 1.5.56+deb8u1

1.1226.1 Available under license:
Format: http://dep.debian.net/deps/dep5/
Source: native package

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1.1227 jackson-dataformat-cbor 2.9.10
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1.1228 apk-tools 2.7.1-r0

1.1229 eclipse-compiler 3.10.2.v20150120

1634

1.1229.1 Available under license :

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 *
 * @since 3.0
 */

public final class CopyingRangeMarker extendsTextEdit {

}
private String fText;

/**
 * Creates a new <tt>CopyRangeMarker</tt> for the given
 * offset and length.
 *
 * @param offset the marker's offset
 * @param length the marker's length
 */
public CopyingRangeMarker(int offset, int length) {
    super(offset, length);
}

/**
 * Copy constructor
 */
private CopyingRangeMarker(CopyingRangeMarker other) {
    super(other);
    fText = other.fText;
}

/* non Java-doc
 * @see TextEdit#doCopy
 */
protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

/* non Java-doc
 * @see TextEdit#accept0
 */
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
 * @see TextEdit#performDocumentUpdating
 */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText = document.get(getOffset(), getLength());
    fDelta = 0;
    return fDelta;
}

/* non Java-doc
*/ boolean deleteChildren() {
    return false;
}
*/

<?xml version="1.0" encoding="ISO-8859-1" ?>
<!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">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
}

p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
}

p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
}
</style>
</head>

<body lang="EN-US">

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

For example, on rare occasions, there may be a special need to
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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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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
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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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copyright notice for the Library among them, as well as a reference
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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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b) Use a suitable shared library mechanism for linking with the
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d) If distribution of the work is made by offering access to copy
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Version 3, 29 June 2007

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

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1.1239 rootfiles 8.1 11.el7

1.1239.1 Available under license :

- **Summary:** The basic required files for the root user's directory
- **Name:** rootfiles
- **Version:** 8.1
- **Release:** 11%{?dist}
- **License:** Public Domain
- **Group:** System Environment/Base

# This is a Red Hat maintained package which is specific to
# our distribution. Thus the source is only available from
# within this srpm.
Source0: dot-bashrc
Source1: dot-bash_profile
Source2: dot-bash_logout
Source3: dot-tcshrc
Source4: dot-cshrc

Buildroot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n)
BuildArch: noarch

%description
The rootfiles package contains basic required files that are placed
in the root user's account. These files are basically the same
as those in /etc/skel, which are placed in regular
users' home directories.

%prep

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/root
for file in %{SOURCE0} %{SOURCE1} %{SOURCE2} %{SOURCE3} %{SOURCE4} ; do
    f=`basename $file`
    install -p -m 644 $file $RPM_BUILD_ROOT/root/${f/dot-/.}
done

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%config(noreplace) /root/.[A-Za-z]*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27
* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild
* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild
* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild
* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild
* Mon Mar 30 2009 Ondrej Vasík <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash,
    related to #429406)
  - removed unset USERNAME from dot-bash_profile (synchronized with
    bash, related to #196735)
* Mon Mar 23 2009 Phil Knirsch <pknirsch@redhat.com> - 8.1-4
  - Added the "we-are-upstream" comments according to Fedora review (#226376)
  - Added -p option to install to preserve timestamps (#226376)
* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild
* Fri Oct 31 2008 Ondrej Vasík <ovasik@redhat.com> - 8.1-2
  - Add dist tag, fix a few rpmlint issues, rebuild due to
    wrong vendor (#451229)
  - Added ncurses requirement(#469390)
* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
  - restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
  - sync files with current /etc/skel stuff
  - remove Xresources (#75666)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
  - rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
  - /sbin stuff out of PATH, moved into /etc/profile

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul 3 2000 Jakub Jelinek <jakub@redhat.com>
  - don’t assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
  - fix some path stuff (#11191)
* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
- mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
- add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
- build for 6.0

* Wed Oct 9 1998 Bill Nottingham <notting@redhat.com>
- remove /root from %%files (it's in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
- portability fix for .cshrc (problem #235)
- change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
- made a noarch package

* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
- Removed .Xclients and .Xsession from package, added %%pre to back up old .Xclients if necessary.

### 1.1240 python-colorama 0.3.7-1

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1.1241 nss-wrapper 1.1.3-1

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1.1242 gorilla 1.7.3

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1.1243 init-system_helpers 1.22

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1.1244 jetty-util 9.4.16.v20190411

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1245 coreutils 8.28 1ubuntu1

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1.1254 linux-headers 4.4.6-r2

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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

_buildddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}
build() {
    cd "$_builddir"
    ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr \
    || return 1
    make || return 1
}
package() {
    cd "$_builddir"
```
make DESTDIR="Spkgdir" install || return 1
}

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options="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
cd "$builddir"
}

package() {
mkdir -p "$pkgdir"
}

_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"

mkdir -p "$subpkgdir/"usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir/"usr/share/spdx/
}

list() {
pkgdesc="$pkgdesc (licence list)"

mkdir -p "$subpkgdir/"usr/share/spdx
local i; for i in "$builddir/text/*.txt"; do
local license="${i##*/}"
echo "$license%.*" >> "$subpkgdir/"usr/share/spdx/license.lst
done
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pkgname=py-flake8-copyright
__pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${__pkgname:0:1}/${__pkgname}/${__pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {


cd "$builddir"
python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaaed3a525ac3c7da12bf2ec338c204cc69b72d05cd39560e528fa95d586c3b1be9570f4a977a7e2417b586e543bfba12abce256b2023c8c4993eb90 flake8-copyright-0.2.0.tar.gz"

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pkgname=perl-bsd-resource
__pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/_$pkgreal-$pkgver.tar.gz"
builddir="$srcdir/_$pkgreal-$pkgver"

prepare() {
  default_prepare

  cd "$builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make
}

check() {
  cd "$builddir"
  make test
}
package() {
  cd "$builddir"
  make DESTDIR="$pkgdir" install
  find "$pkgdir" \( -name perllocal.pod \-o -name .packlist \) \-delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
da5417f663b8065baf35f4eea16de9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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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
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_dup_status.c
   lib/gssapi/mechglue/g_dup_name.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/prop.x  
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
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`
- `slave/kpropd_rpc.c`
- `slave/kproplog.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

# 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)
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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT:    '/','
  VERSION:     '1.13.2',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
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```
<tt class="docutils literal">kadmin/create</tt>
```

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</p>

<pre class="highlight-python">
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_accept_sec_context.c
</pre>
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.c
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.kpropd_rpc
- slave/kproplog
- slave/iprop.c

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1270 xpp 6.5.0

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*/
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver
Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.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.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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the module unloading problems, ...
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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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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 single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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

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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".)

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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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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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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.

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Appendix: How to Apply These Terms to Your New Libraries

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

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1.1280 mime-support 3.59ubuntu1

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)	(*(int*)&(w))	/* convert union wait to int */
#define WIFEXITED(w)	(!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)(WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)	(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)	(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) 	((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#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 intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDND0x0040
#define POLLNORMPOLLRDND0
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

Open Source Used In cnBR 20.2-06042020 14524
#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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

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int setresgid(gid_t, gid_t, gid_t);
#endif
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#endif

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1.1284 openssl 1.1.1-1ubuntu2.1~18.04.4

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the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample
```

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```c
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.
Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

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1.1286 chardet 2.3.0 2

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1.1298 alpine-baselayout 3.0.4-r0

1.1299 gojsonreference 0.17.0
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1.1300 metrics 3.1.5

1.1301 libgcrypt 1.6.5 2ubuntu0.5

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1.1312 streams 2.5.2

1.1313 nghttp 1.15.0
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

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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
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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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<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

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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/
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You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.
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=== begin of license ===

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=== 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.

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- 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*
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
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
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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

syn match  psfObjTag  "\<-\+A-Z0-9a-z]+\<-\+A-Z0-9a-z]\>+" contained
syn match  psfAttAbbrev ".\<(fa|fr||aqlrvvj)<|<!|<=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|
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.

Some of the attributes covered by attUnquotString and attQuotString:
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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.
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"

1.1323 kerberos 1.15.1 37.el7_7.2
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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
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
and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
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hostname -- set the host name or show the host/domain name

```
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```

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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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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
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)
#elif !defined_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRIO0x0002
#define POLLRD_NORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */
int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

1.1326 simpleclient-hotspot 0.0.26

1.1327 libxdmcp 1.1.2 1.1
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1.1328 log4j-api 2.11.1
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# Automatically generated by apkbuild-cpan, template 1
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pkgname=perl-software-license
pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/
arch="noarch"
license="GPL PerlArtistic"

cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

__builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
  cd "$__builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$__builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make && make test
}

package() {
  cd "$__builddir"
  make DESTDIR="$pkgdir" install || return 1
  find "$pkgdir" !(-name perllocal.pod -o -name .packlist) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

url="http://www.levien.com/libart/

arch="all"

license="LGPL"

depends=

makedepends=

subpackages="$pkgname-dev"

source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
  cd "$_builddir"
  update_config_sub || return 1
}

build() {
  cd "$_builddir"
  ./configure \
  --build=${CBUILD} \
  --host=${CHOST} \
  --prefix=/usr \
  || return 1
  make || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=2
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
makedepend="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make && make test || return 1
}

package() {
cd "$_builddir"
make DESTDIR="$_pkgdir" install || return 1
find "$_pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6f4a0f1f61957e289e8de45af5f79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaa5c089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd"
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_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {
    cd "$builddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
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DES core in libhcrypto

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

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1.1349 curl 7.61.1-r3

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

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1.1350 go-grpc-prometheus 3.2.17+dfsg-1

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1.1351 tar 1.29b 2ubuntu0.1

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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.)

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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MA 02111-1307, USA

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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

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[This is the first released version of the Lesser GPL. It also counts
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version number 2.1.]
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@subheading Preamble

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those 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.

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.

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.

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.

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:

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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That's all there is to it!

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscall that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
sysdeps/unix/bsd/bsd4.4/syscalls.list.
(fchflags): Likewise.
(revoke): Likewise.
(setlogin): Likewise.
(sigaltstack): Likewise.
(wait4): Likewise.
(sigblock): Remove.
(sigsetmask): Likewise.
(wait3): Likewise.
(waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/ Versions: Move to ...
* sysdeps/unix/bsd/ Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/ bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/ bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcsattr.c: Move to ...
* sysdeps/unix/bsd/tcsattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdef1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
 # Hurd-based GNU systems.
 gnu
 # The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd4.4/bits/socketaddr.h b/sysdeps/unix/bsd/bits/socketaddr.h
similarity index 100%
rename from sysdeps/unix/bsd4.4/bits/socketaddr.h
rename to sysdeps/unix/bsd/bits/socketaddr.h
diff --git a/sysdeps/unix/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424a61..0000000000000000
--- a/sysdeps/unix/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name|Caller|Syscall name| # args|Strong name|Weak names
- -chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstack|_sigaltstack
-wait4-wait4__wait4wait4

diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
 # File name|Caller|Syscall name| # args|Strong name|Weak names
 +chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock - flock2 __flockflock
getdents- getdirenttries4 __getdirentriesgetdirenttries
getdtsz- gettablesizes0 __gettablesizesgettablesizesize
getpagesize- getpagesize0 __getpagesizegetpagesize
killpg- killpg2killpg
-sigblock- sigblock1 __sigblocksigblock
+revoke- revoke1revoke
+setlogin- setlogin2setlogin
+sigaltstack- sigaltstack2 __sigaltstacksigaltstack
sigpause- sigpause1 __sigpausesigpause
-sigsetmask- sigsetmask1 __sigsetmasksigsetmask
sigstack- sigstack2sigstack
sigvec- sigvec3 __sigvecsigvec
-wait3- wait33 __wait3wait3
-waitpid- waitpid3 __waitpidwaitpid
+wait4- wait44 __wait4wait4
diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcdrain.c
to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.c
to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcsetattr.c
to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait.c
to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b...ff027f01d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
    @    @ -1 +1 @
#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
1.1356 fontconfig 2.12.6 0ubuntu2

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1.1359 hostname 3.16ubuntu2
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1.1361 couchdb 2.1.0-f1a1d7f1c

1.1361.1 Available under license:
khash

Files: c_src/khash.c src/* test/*.t test/erl test/gen_term.erl

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Kazlib - Hash Table Data Type

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Etap
=====

Files: test/etap.erl

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Google double-conversion
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**Yajl Test Cases**

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Files: test/cases/*.json

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!
";
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often
implemented in terms of the L<flock(2)> system function which has
some shortcomings (especially concerning locks on remotely mounted
file systems) and slightly different behaviour than L<fcntl(2)>.
Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, built during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

$sfs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

$sfs = new File::FcntlLock(  l_type   => F_WRLCK,
                        l_whence => SEEK_SET,
                        l_start  => 0,
                        l_len    => 100 );
if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file
to be locked. A value of 0 is interpreted to mean a lock, starting at
C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are
permitted, resulting in a lock ranging from C<l_start+l_len> up to
and including C<l_start-1>. But not all systems support negative
values for \$l_len and will return an error when you try to obtain such a lock, so please read the \$fcntl man page of the system carefully for details.

=item C\$l_pid()

If a call of the \$lock method with C<F_SETLK> indicates that another process is holding the lock (in which case the \$l_type property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the \$l_pid method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the \$lock method:

=over 4

=item C\$lock()

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\$fs->lock( $fh, F_SETLK );

There are three values that can be used as the second argument:

=over 4

=item C\$F_SETLK

With C\$F_SETLK the \$lock method tries to obtain a lock (when \$l_type is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if \$l_type is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for \$fcntl man page for more details).

=item C\$F_SETLKW

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is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>\n
Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undefined> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()> . Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undefined>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno> . The method returns C<undefined> if there was no error.

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW
=item F_RDLCK F_WRLCK F_UNLCK
=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::fcntlLock::Pure and File::fcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.
Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with `fcntl(2)`. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

`perl(1)`, `fcntl(2)`, `lseek(2)`.

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File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES
The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the ‘q’ format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

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1.1369 audit 2.8.2 1ubuntu1
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: auditd
Source: https://people.redhat.com/sgrubb/audit/

Files: *
Copyright: 2012-2016 Steve Grubb <sgrubb@redhat.com>
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License: GPL-2

Files: src/libev/*
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Files: lib/*
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1.1371 device-mapper-multipath 0.4.9-127.el7

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1.1372 sudo 1.8.21p2-3ubuntu1
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillery, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

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
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frederic
Margevius, 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

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_compare_name.c
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lib/libgss/g_dsp_status.c
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- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_accept_sec_context</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_acquire_cred</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_canon_name</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_compare_name</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_context_time</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_delete_sec_context</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dsp_name</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dsp_status</span></code>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_dup_name.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_exp_sec_context.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_export_name.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_glue.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_imp_name.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_imp_sec_context.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_initialize.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_inquire_context.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_inquire_cred.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_inquire_names.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_process_context.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_rel_buffer.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_rel_cred.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_rel_name.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">class</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span>g_rel_oid_set.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/gssapi/mechglue/g_userok.c`
- `lib/gssapi/mechglue/g_utils.c`
- `lib/gssapi/mechglue/g_verify.c`
- `lib/gssapi/mechglue/gssd_pname_to_uid.c`
- `lib/gssapi/mechglue/mglueP.h`
- `lib/gssapi/mechglue/oid_ops.c`
- `lib/gssapi/spnego/gssapiP_spnego.h`
- `lib/gssapi/spnego/spnego_mech.c`

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``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
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including
the following new or changed files:

.. 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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lib/gssapi/generic/gssapi_err_generic.et
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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
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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
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
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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 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)

1.1391 dejavu-fonts 2.33 6.el7

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1.1403 py-pip 10.0.1 r0

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center Version 2.1, February 1999

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c ispell-local-pdict: "ispell-dict"
c End:

1.1405 guava 20.0

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library 
version 1.2.3, July 18th, 2005

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

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

*/

---------------------------------------------------------------------------
[edoc, syntax_tools]

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Written by:       Philip Hazel
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# Constant-time SSSE3 AES core implementation.

## version 0.1

## By Mike Hamburg (Stanford University), 2009

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>
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1.1431 go 1.12.9

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1.1444 bash 5.0.7

1.1445 ca-certificates 20191127-r1

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

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

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**Apache**

The following artifacts are ASL2 licensed.

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

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**MortBay**

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

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

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**Mortbay**

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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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
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_compare_name.c
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lib/gssapi/mechglue/g_initialize.c
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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
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lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.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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```
code/gssapi/generic/gssapi_err_generic
lib/gssapi/mechglue/g_accept_sec_context
```
...
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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jar/org/codehaus/janino/tools/package-info.java
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* /opt/ws_local/PERMITS_SQL/1020456226_1591369583.76/0/janino-3-1-0-sources-jar/org/codehaus/janino/IClassLoader.java
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fields:
  site: string
  author: root

1.1454 slf4j-simple 1.7.25

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1.1456 jackson-dataformat-yaml 2.8.11

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OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

### curl 7.29.0-54.el7_7.2

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1.1460 animal-sniffer-annotation 1.14

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1.1461 logrus 1.0.6

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1.1462 tre 1.1.20-r3

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1.1463 kerberos 1.16 2ubuntu0.1

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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
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in \
``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
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
    lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including
the following new or changed files:

.. 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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- `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_log.h`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.kproplog.c`

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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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

  # 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)

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1.1464 adduser 3.113+nmu3ubuntu4

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This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
<rb@debian.org>, and co-maintained by Marc Haber
<mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.1468 giflib 5.1.4

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

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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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1.1470 wget 1.19.4 1ubuntu2.2

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Version 3, 29 June 2007

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

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
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control those activities. However, it does not include the work's
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1.1479 python-certifi 2018.1.18 2
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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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1.1482 tomcat-jaspic-api 9.0.35

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1.1484 msgp 1.1.0

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1.1486 selinux 2.3-2

1.1486.1 Available under license:

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This package was debianized by Colin Walters <walters@debian.org> on
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.1487 jmx-prometheus-javaagent 0.10

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<ibmiddoc language="zh_TW" docstyle="ibmli5">

<p>AFS 3.6</p>
1 2 30 30
Y2K Readiness: 1

<d id = "tc_211">gv0l
</d>
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# make compiler warnings fatal
AFSDEV_AUXCDEFINES = $(AFSDEV_AUXCDEFINES) -WX

# include the primary makefile
RELDIR=WINNT\license\lang
!INCLUDE ..\..\..\config\NTMakefile.$(SYS_NAME)
!INCLUDE ..\..\..\config\NTMakefile.version

# install:
@$(DESTDIR)\bin\sgml2rtf -1252 en_US.ide
@$(DESTDIR)\bin\sgml2rtf -932 ja_JP.ide
@$(DESTDIR)\bin\sgml2rtf -949 ko_KR.ide
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@$(DESTDIR)\bin\sgml2rtf -1252 de_DE.ide

clean ::
$(DEL) *.rtf

mkdir:
# File:     psf-1.2.10-11.11
#
# Purpose:   OpenAFS Product Specification File (PSF) for swpackage
#
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#
# Header:    $Header$
#
# Description: This PSF contains a valid product definition which includes
#               all attributes for OpenAFS installation via software Distributor
#               This psf is to be used on openafs compiled as 32bit binaries.
Not all control scripts are required for installation of a product/fileset

Below is the list of control scripts that can be used on either

Products or filesets

Control script definition(s):

Control scripts are optional. If defined, then specify the
path to the script file.

NOTE: control scripts can be defined for products too.

#checkinstall path  # Install check script
#preinstall  path   # Install pre-load script
#postinstall path  # Install post-load script
#configure path    # Configure for use script
#unconfigure path  # Configure undo script
#verify path       # Verify integrity script
#checkremove path  # Remove check script
#preremove path    # Remove pre-remove script
#postremove path   # Remove post-remove script
#control_file path # Addition (sub)script or control data

tag       "OpenSource"# The identifier for the vendor.
title     "OpenSource Software"# The name of the vendor.
# uuid     ""# The NetLs UUID for the vendor.
description < data/vendor.description # A multi-line description of the vendor.

tag         "OPENAFS"# The identifier for the product.
title       "Open Source Andrews File System" # The name of the product.
revision    "A.1.2.10"# The revision (release) number of the product.
#number	"the_number" # The order/part number for the product.
category    "OpenSource"# The type of software (identifier).
category_title "the category title" # The type of software (string).
description < data/product.description # A file containing a
# multi-line description of the product.

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readme < data/product.README # A multi-page README for the product.

architecture HP-UX_B.11.11_32/64 # A concise summary of hardware/OS'es
# supported.

machine_type *:32* # Machines the product supports (uname -m).
os_name HP-UX # OS'es the product supports (uname -s).
os_release ?.11.11# OS releases the product supports (uname -r).
os_version * # OS versions the product supports (uname -v).

directory /usr/afs # The root directory for the product
is_locatable false # If defined then users can install the product
# into any directory they specify.

# Control script definition(s):
#
# Control scripts are optional. If defined, then specify the
# path to the script file.
#
# NOTE: control scripts can be defined for products or filesets

    configure scripts/openafs.configure
    unconfigure scripts/openafs.unconfigure

# Subproduct definition(s):
#
# Subproducts are optional. If defined, then they group/partition
# the product's filesets into logical sets. If defined, then the
# tag and contents are required.
#
# The Runtime subproduct contains anything that is pertinent to
# either the server or client products
#
# subproduct
    tagRuntime
    title "Runtime Requirements for OpenAFS Client and Server"
    contents OPENAFS-RUN
end # Runtime subproduct

fileset
    tag OPENAFS-RUN
title  "OpenAFS Runtime"
revision  A.1.2.10
architecture  HP-UX_B.11.11_32/64
machine_type  *:32*  # Machines the product supports (uname -m).
os_name   HP-UX  # OS'es the product supports (uname -s).
os_release  ?.11.11# OS releases the product supports (uname -r).
os_version  *  # OS versions the product supports (uname -v).
ancestor OPENAFS.OPENAFS-RUN,fa=HP-UX_B.11.11_32/64,fr=<A.1.2.10
description  < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
#
# prerequisite
# corequisite

#configure  scripts/openafs-run.configure
#unconfigure  scripts/openafs-run.unconfigure
#preremove  scripts/openafs-run.preremove
#postremove  scripts/openafs-run.postremove

# File definition(s):
#
# To define the files contained in a fileset, you can:
#
# 1) specify default permissions,
# 2) specify files explicitly,
# 3) specify files implicitly,
# 4) map source pathnames to target pathnames.

file_permissions  -m 755 -o root -g sys
directory  /usr/afs

directory  /usr/vice
directory  /usr/vice/etc
directory  /usr/vice/etc/config

file_permissions  -m 755 -o root -g sys
directory  ../../../hp_ux110/dest/bin = /usr/afs/bin
file_permissions  -u 222 -o root -g sys

file  afsmonitor
file bos
file compile_et
file dlog
file dpass
file fs
file install
file klog
file klog.krb
file knfs
file kpasswd
file livesys
file rxgen
file pagsh
file pagsh.krb
file pts
file scout
file sys
file tokens
file tokens.krb
file translate_et
file udebug
file unlog
file xstat_cm_test
file xstat_fs_test

file_permissions -m 755 -o root -g sys
directory ../../../hp_ux110/dest/etc = /usr/afs/bin
file_permissions -u 222 -o root -g sys
    file backup
    file butc
    file copyauth
filefms
filestrace
    filekas
fileread_tape
filerestorevol
filerdebug
fileuss
    filevos

    file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.client/usr/etc/dkload = /usr/newconfig/sbin/init.d
fileafs.rcafs

end # fileset
#
# The DocsByLang subproduct contains documentation pages by language
subproduct
tag     DocsByLang
title     "Manuals by Language"
contents OPENAFS-ENG-DOC
end # Manuals subproduct

fileset
tag     OPENAFS-ENG-DOC
title     "OpenAFS English Documentation"
revision  A.1.2.10
machine_type *:32*   # Machines the product supports (uname -m).
os_name      HP-UX   # OS'es the product supports (uname -s).
os_release   ?.11.11# OS releases the product supports (uname -r).
os_version   * # OS versions the product supports (uname -v).
architecture HP-UX_B.11.11_32/64
ancestor OPENAFS.OPENAFS-ENG-DOC,fa=HP-UX_B.11.11_32/64,fr=<A.1.2.10
description < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
# prerequisite
# corequisite

#unconfigure scripts/openafs-eng-man.unconfigure
#verify     scripts/openafs-eng-man.verify
#checkremove scripts/openafs-eng-man.checkremove
#preremove  scripts/openafs-eng-man.preremove
#postremove scripts/openafs-eng-man.postremove
#control_file scripts/openafs-eng-man.subscript

file_permissions -u 222 -o root -g sys
directory  ../../../doc = /usr/afs/doc
file*    

eend # fileset

fileset
tag     OPENAFS-SRV
title     "OpenAFS Server"
machine_type *:32*   # Machines the product supports (uname -m).
os_name      HP-UX   # OS'es the product supports (uname -s).
os_release   ?.11.11# OS releases the product supports (uname -r).
os_version   * # OS versions the product supports (uname -v).
revision     A.1.2.10
architecture HP-UX_B.11.11_32/64
ancestor OPENAFS.OPENAFS-SRV,fa=HP-UX_B.11.11_32/64,fr=<A.1.2.10

description < data/openafs-srv.description

is_kernel false
is_reboot false

# Dependency definition(s):
#

# Require that the Runtime product be in place before installing
# Server product.

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN32 | OPENAFS.OPENAFS-KRN64
# corequisite

configure    scripts/openafs-srv.configure
unconfigure  scripts/openafs-srv.unconfigure
preremove    scripts/openafs-srv.preremove

#verify      scripts/openafs-srv.verify
#checkremove scripts/openafs-srv.checkremove
#preremove   scripts/openafs-srv.preremove
#postremove  scripts/openafs-srv.postremove
#control_file scripts/openafs-srv.subscript

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory  /sbin/fs/afs

file_permissions -u 222 -o bin -g bin
directory  ../../../hp_ux110/dest/root.server/etc = /sbin/fs/afs
directory  ../../../hp_ux110/dest/root.server/usr/afs/bin = /usr/afs/bin
directory  ../../../hp_ux110/dest/root.server/usr/afs/bin = /usr/afs/bin
file_permissions -m 755 -o root -g sys

file_permissions -u 222 -o root -g sys
filebosserver
filebuserver
filefileserv
filekaserv
filekpwvalid
filept_util
fileptserver
filenlserv
filevolinfo
filevolserver

file_permissions -m 755 -o root -g sys
directory ../../../hp_ux110/dest/etc = /usr/afs/bin
file_permissions -u 222 -o root -g sys
  file kadb_check
  file kdb
  file kdump
  file kdump32
  file kdump64
  file kseal
  file rmtsysd
  file vsys
fileprdb_check
filevldb_check
filevldb_convert

end # fileset

fileset
tag  OPENAFS-CLNT
title  "OpenAFS Client"
revision  A.1.2.10
machine_type *:32*  # Machines the product supports (uname -m).
  os_name  HP-UX  # OS'es the product supports (uname -s).
  os_release  ?.11.11# OS releases the product supports (uname -r).
  os_version  *  # OS versions the product supports (uname -v).
architecture HP-UX_B.11.11_32/64
ancestor OPENAFS.OPENAFS-CLNT,fa=HP-UX_B.11.11_32/64,fr=<A.1.2.10

description < data/openafs-clnt.description

  is_kernel false
  is_reboot false

  # Dependency definition(s):
  #
# If the client is installed, you must install the kernel driver
#
# This prereq means that either kernel fileset must be installed
# the KRN32 for 32 bitOS or KRN64 for 64BIT OS

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN32 | OPENAFS.OPENAFS-KRN64
# corequisite

checkinstallscripts/openafs-clnt.checkinstall
preinstallscripts/openafs-clnt.preinstall
configurescripts/openafs-clnt.configure
unconfigurescripts/openafs-clnt.unconfigure
preremovescripts/openafs-clnt.preremove

# Have SD create the /usr/vice/cache directories
#
file_permissions -u 222 -o root -g sys
directory /usr/vice/cache

file_permissions -u 222 -o bin -g bin
directory /usr/newconfig/vice
directory /usr/newconfig/vice/etc

file_permissions -u 222 -o root -g sys
directory files/afs = /afs

file_permissions -u 222 -o bin -g bin
directory files/usr/vice/etc = /usr/newconfig/usr/vice/etc

fileCellServDB
fileSuidCells
filecacheinfo

file_permissions -u 222 -o root -g sys
directory ../../../hp_ux110/dest/root.client/usr/vice/etc = /usr/vice/etc

fileafs

directory ../../../hp_ux110/dest/lib = /usr/lib/security
file_permissions -u 222 -o bin -g bin
  file pam_afs.so.1
  file pam_afs.krb.so.1

# Startup links will be configured in the configure script

# File definition(s):
#
# To define the files contained in a fileset, you can:
#
1) specify default permissions,
2) specify files explicitly,
3) specify files implicitly,
4) map source pathnames to target pathnames.

file_permissions -u 222 -o bin -g bin

directory ../../../hp_ux110/dest/bin = /usr/afs/bin
file  up
file  cmdebug

end # fileset

# Put the afs kernel driver filesets into a subproduct
# in order that the prerequisite for the client fileset
# will automatically select the correct kernel fileset
# based on os-bitness
subproduct
tag	Kernel
title "OpenAFS Kernel Drivers"
contents OPENAFS-KRN32 OPENAFS-KRN64
end

fileset
tag  OPENAFS-KRN32
title  "OpenAFS 32bit Kernel Drivers"
revision  A.1.2.10
machine_type *:32*  # Machines the product supports (uname -m).
oS_name  HP-UX  # OS'es the product supports (uname -s).
oS_release  ?.11.11# OS releases the product supports (uname -r).
oS_version  *  # OS versions the product supports (uname -v).
architecture HP-UX_B.11.11_32
ancestor OPENAFS.OPENAFS-KRN,fa=HP-UX_B.11.11_32,fr=<A.1.2.10

description < data/openafs-krn.description

is_kernel true
is_reboot true

# Dependency definition(s):
#
# prerequisite
# corequisite
exrequisite OPENAFS.OPENAFS-KRN64

checkremove  scripts/openafs-krn.checkremove
configure  scripts/openafs-krn.configure
postinstall  scripts/openafs-krn.postinstall
unconfigure scripts/openafs-krn.unconfigure
verify scripts/openafs-krn.verify

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.client/bin = /usr/conf/lib
    filelibafs.nonfs.alibafs.a

file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.client/usr/vice/etc = /usr/conf/master.d
    file afs.driverafs

don # fileset
fileset
tag OPENAFS-KRN64
title "OpenAFS 64 bit Kernel Drivers"
revision A.1.2.10
os_name HP-UX # OS'es the product supports (uname -s).
os_release ?.11.11# OS releases the product supports (uname -r).
os_version * # OS versions the product supports (uname -v).
machine_type *.64*
architecture HP-UX_B.11.11_64
ancestor OPENAFS.OPENAFS-KRN,fa=HP-UX_B.11.11_64,fr=<A.1.2.10
description < data/openafs-krn.description

is_kernel true
is_reboot true

# Dependency definition(s):
#

# prerequisite
# corequisite
exrequisite OPENAFS.OPENAFS-KRN32

checkremove scripts/openafs-krn.checkremove
configure scripts/openafs-krn.configure
postinstall scripts/openafs-krn.postinstall
unconfigure scripts/openafs-krn.unconfigure
verify scripts/openafs-krn.verify

# File definition(s):
#

---
file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.client/bin = /usr/conf/lib
  file libafs64.nonfs.a libafs.a

end # fileset
# End of Kernel subproduct
#
# We can call this whatever you like, the name falls in line
# with other SD packaged media
#
fileset
tag OPENAFS-DEV
title "OpenAFS Developers Kit"
revision A.1.2.10
architecture HP-UX_B.11.11_64
ancestor OPENAFS.OPENAFS-DEV,fa=HP-UX_B.11.11_32/64,fr=<A.1.2.10
machine_type *:32*
description < data/openafs-krn.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
#
# prerequisite
# corequisite

#unconfigure scripts/openafs-dev.unconfigure
#verify scripts/openafs-dev.verify
#checkremove scripts/openafs-dev.checkremove
#preremove scripts/openafs-dev.preremove
#postremove scripts/openafs-dev.postremove
#ucontrol_file scripts/openafs-dev.subscript

# File definition(s):
#
#
#  file_permissions -u 222 -o bin -g bin
#  directory ../../../hp_ux110/dest/include = /usr/afs/include
#  file *

file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.perf/include/afs = /usr/afs/include/afs
  file afs_stats.h# Included above
  file afs_sysnames.h# Included above
# The ManualsByLang subproduct contains manual pages by language

subproduct
  tag       ManualsByLang
  title     "Manuals by Language"
  contents  OPENAFS-ENG-MAN
end # Manuals subproduct

# File definition(s):

  directory   /usr/afs/man
  directory   /usr/afs/man/man1
  directory    ../../../src/man = /usr/afs/man/man1
<p>Los Programas que se enumeran a continuación son programas bajo licencia sujetos a los siguientes términos y condiciones además de los del International Program License Agreement.</p>

Número de programa: 5630-A18
Autorización para el uso en sistemas personales/portátiles: 2
Preparación para año 2000: 1

<d id="es_211">Garanta:
<p>“1” significa que este Programa tiene una garantía de devolución del dinero de 30 días.
</d>
<p>“1” significa que el Programa puede instalarse en la máquina principal y en otra máquina, siempre y cuando el Programa no esté activo en ambas máquinas al mismo tiempo.
</d>
<d id="es_213">Fecha final de los servicios del programa:
</d>
<d id="es_214">Preparación para el Año 2000:
<p>“2” significa que este Programa, cuando se utiliza de acuerdo con su documentación correspondiente, es capaz de procesar, enviar y/o recibir correctamente datos de fecha comprendidos entre los siglos XX y XXI inclusive, siempre que todos los productos (por ejemplo, hardware, software y código interno) utilizados con este Programa de IBM intercambien datos de fechas con el mismo de forma correcta y precisa.
</p>
<d id="es_22">Entorno operativo especificado
</d>
</d>

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# All Rights Reserved.
#
# This software has been released under the terms of the IBM Public
# License. For details, see the LICENSE file in the top-level source
# directory or online at http://www.openafs.org/dl/license10.html
#
# make compiler warnings fatal
AFSDEV_AUXCDEFINES = $(AFSDEV_AUXCDEFINES) -WX
#
# include the primary makefile
RELDIR=WINNT\license
!INCLUDE ..\..\config\NTMakefile.$(SYS_NAME)
!INCLUDE ..\.\config\NTMakefile.version
EXEFILE = $(DESTDIR)\bin\sgml2rtf.exe

EXERES = $(OUT)\sgml2rtf.res

EXEOBJS = $(OUT)\main.obj $(OUT)\multistring.obj

EXELIBS = \user32.lib

$(EXERES): sgml2rtf.rc AFS_component_version_number.h

$(EXFILE) : $(EXEOBJS) $(EXERES) $(EXELIBS) $(\_VC\_MANIFEST\_EMBED\_EXE) $(EXECONLINK) $(EXEPREP) $(CODESIGN\_USERLAND) $(SYMSTORE\_IMPORT)

install : $(EXFILE) lang

lang ::
$(CD) lang
@$(MAKECMD) /nologo /f NTMakefile install
$(CD) ..

mkdir:
-mkdir $(OUT)\lang
cd lang
nmake /nologo /f ntmakefile SRC=$(SRC) OBJ=$(OBJ) mkdir
cd ..

clean ::
$(DEL) $(EXERES)
$(CD) lang
@$(MAKECMD) /nologo /f NTMakefile clean
$(CD) ..
# File: psf-1.2.10
# Purpose: OpenAFS Product Specification File (PSF) for swpackage
# Copyright: Copyright (c) 2003 International Business Machines Corporation and others. All Rights Reserved.
# Header: $Header$
# Description: This PSF contains a valid product definition which includes
all attributes for OpenAFS installation via software Distributor

# Not all control scripts are required for installation of a product/fileset

# Below is the list of control scripts that can be used on either
# Products or filesets

# Control script definition(s):

# Control scripts are optional. If defined, then specify the
# path to the script file.

# NOTE: control scripts can be defined for products too.

#checkinstall path         # Install check script
#preinstall   path         # Install pre-load script
#postinstall  path         # Install post-load script
#configure    path         # Configure for use script
#unconfigure  path         # Configure undo script
#verify       path         # Verify integrity script
#checkremove  path         # Remove check script
#preremove    path         # Remove pre-remove script
#postremove   path         # Remove post-remove script
#control_file path         # Addition (sub)script or control data

vendor

tag       "OpenSource"# The identifier for the vendor.
title     "OpenSource Software"# The name of the vendor.
# uuid      ""# The NetLs UUID for the vendor.
description < data/vendor.description # A multi-line description of the vendor.

end #Vendor

# Product definition(s):

# All product attributes are optional, except for the tag and the
# filesets which must be contained within it.

product

tag       "OPENAFS"# The identifier for the product.
title     "Open Source Andrews File System" # The name of the product.
revision   "A.1.2.10"# The revision (release) number of the product.

#number"the_number"      # The order/part number for the product.
category   "OpenSource""# The type of software (identifier).
#category_title "the category title" # The type of software (string).

description < data/product.description # A file containing a
# multi-line description of the product.

copyright "(c)Copyright 2002 International Business Machines Corporation and others. All Rights Reserved.”

readme < data/product.README # A multi-page README for the product.

architecture HP-UX_B.11.00_32/64 # A concise summary of hardware/OS'es 
supported.

machine_type *:32* # Machines the product supports (uname -m).

os_name HP-UX # OS'es the product supports (uname -s).

os_release ?.11.00# OS releases the product supports (uname -r).

os_version * # OS versions the product supports (uname -v).

directory /usr/afs # The root directory for the product

is_locatable false # If defined then users can install the product
# into any directory they specify.

# Control script definition(s):
#
# Control scripts are optional. If defined, then specify the
# path to the script file.
#
# NOTE: control scripts can be defined for products or filesets

configure scripts/openafs.configure
unconfigure scripts/openafs.unconfigure

# Subproduct definition(s):
#
# Subproducts are optional. If defined, then they group/partition
# the product's filesets into logical sets. If defined, then the
# tag and contents are required.
#
# # The Runtime subproduct contains anything that is pertinent to
# either the server or client products
#
# #
subproduct
tag.Runtime

title "Runtime Requirements for OpenAFS Client and Server"

contents OPENAFS-RUN

end # Runtime subproduct

fileset
tag     OPENAFS-RUN

title   "OpenAFS Runtime"

revision  A.1.2.10

architecture HP-UX_B.11.00_32/64

machine_type *:32*  # Machines the product supports (uname -m).

os_name   HP-UX  # OS'es the product supports (uname -s).

os_release ?.11.00# OS releases the product supports (uname -r).

os_version  * # OS versions the product supports (uname -v).

ancestor OPENAFS.OPENAFS-RUN,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10

description < data/openafs-run.description

is_kernel false

is_reboot false

# Dependency definition(s):
#

# prerequisite

# corequisite

# configure  scripts/openafs-run.configure
# unconfigure  scripts/openafs-run.unconfigure
# preremove  scripts/openafs-run.preremove
# postremove  scripts/openafs-run.postremove

# File definition(s):
#
# To define the files contained in a fileset, you can:
#
# 1) specify default permissions,
# 2) specify files explicitly,
# 3) specify files implicitly,
# 4) map source pathnames to target pathnames.

file_permissions -m 755 -o root -g sys
directory   /usr/afs

file_permissions -u 222 -o root -g sys
directory   /usr/vice
directory   /usr/vice/etc
directory   /usr/vice/etc/config

directory   ../../../hp_ux110/dest/bin = /usr/afs/bin

file_permissions -m 755 -o root -g sys
directory   ../../../hp_ux110/dest/bin = /usr/afs/bin

file_permissions -u 222 -o root -g sys
file afsmonitor
file bos
file compile_et
file dlog
file dpass
file fs
file install
file klog
file klog.krb
file knfs
file kpasswd
file livesys
file rxgen
file pagsh
file pagsh.krb
file pts
file scout
file sys
file tokens
file tokens.krb
file translate_et
file udebug
file unlog
file xstat_cm_test
file xstat_fs_test

file_permissions -m 755 -o root -g sys
directory ../../../hp_uu110/dest/etc = /usr/afs/bin
file_permissions -u 222 -o root -g sys
    filebackup
    file butc
    file copyauth

filefms
filestrace
    filekas
filer_read_tape
filerestorevol
filerxdebug
fileuss
    filevos

    file_permissions -u 222 -o bin -g bin
directory ../../../hp_uu110/dest/root.client/usr/vice/etc/dkload = /usr/newconfig/sbin/init.d
fileafs.rcafs

end # fileset
#
# The DocsByLang subproduct contains documentation pages by language
subproduct
  tag  DocsByLang
  title  "Manuals by Language"
  contents  OPENAFS-ENG-DOC
end # Manuals subproduct

fileset
  tag     OPENAFS-ENG-DOC
  title   "OpenAFS English Documentation"
  revision  A.1.2.10
  machine_type *:32*  	# Machines the product supports (uname -m).
  os_name      HP-UX  	# OS'es the product supports (uname -s).
  os_release   ?.11.00	# OS releases the product supports (uname -r).
  os_version   *  	# OS versions the product supports (uname -v).
  architecture HP-UX_B.11.00_32/64
  ancestor OPENAFS.OPENAFS-ENG-DOC,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10

description < data/openafs-run.description

  is_kernel false
  is_reboot false

  # Dependency definition(s):
  #

  # prerequisite
  # corequisite

  #unconfigure  scripts/openafs-eng-man.unconfigure
  #verify       scripts/openafs-eng-man.verify
  #checkremove  scripts/openafs-eng-man.checkremove
  #preremove    scripts/openafs-eng-man.preremove
  #postremove   scripts/openafs-eng-man.postremove
  #control_file scripts/openafs-eng-man.subscript

  file_permissions -u 222 -o root -g sys
directory  ../../../doc = /usr/afs/doc
file*

end # fileset

fileset
  tag     OPENAFS-SRV
  title   "OpenAFS Server"
  machine_type *:32*  	# Machines the product supports (uname -m).
  os_name      HP-UX  	# OS'es the product supports (uname -s).
os_release  ?.11.00# OS releases the product supports (uname -r).
os_version  * # OS versions the product supports (uname -v).
revision  A.1.2.10
architecture HP-UX_B.11.00_32/64
ancestor OPENAFS.OPENAFS-SRV,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10

description < data/openafs-srv.description

is_kernel false
is_reboot false

# Dependency definition(s):
#

# Require that the Runtime product be in place before installing
# Server product.

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN32 | OPENAFS.OPENAFS-KRN64
# corequisite

configure scripts/openafs-srv.configure
unconfigure scripts/openafs-srv.unconfigure
preremove scripts/openafs-srv.preremove

#verify scripts/openafs-srv.verify
#checkremove scripts/openafs-srv.checkremove
#preremove scripts/openafs-srv.preremove
#postremove scripts/openafs-srv.postremove
#control_file scripts/openafs-srv.subscript

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory  /sbin/fs/afs

file_permissions -u 222 -o bin -g bin
directory  ../../../hp_ux110/dest/root.server/etc = /sbin/fs/afs
filebcheckrc
filemount
fileumount
filevfsck fsck

file_permissions -m 755 -o root -g sys
directory  ../../../hp_ux110/dest/root.server/usr/afs/bin = /usr/afs/bin

file_permissions -u 222 -o root -g sys
filebosserver
filebuserver
filefileserv
filekaserv
filekpwvalid
filept_util
fileptserver
filesalvager
fileupclient
fileupserver
filevlserver
filevolinfo
filevolserver

directory ../../../hp_ux110/dest/etc = /usr/afs/bin

end # fileset

tag OPENAFS-CLNT

title "OpenAFS Client"

revision A.1.2.10

machine_type *:32* # Machines the product supports (uname -m).

os_name HP-UX # OS'es the product supports (uname -s).

os_release ?.11.00# OS releases the product supports (uname -r).

os_version * # OS versions the product supports (uname -v).

architecture HP-UX_B.11.00_32/64

ancestor OPENAFS.OPENAFS-CLNT,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10

description < data/openafs-clnt.description

is_kernel false

is_reboot false

# Dependency definition(s):
# If the client is installed, you must install the kernel driver
#
# This prereq means that either kernel fileset must be installed
# the KRN32 for 32 bitOS or KRN64 for 64BIT OS

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN32 | OPENAFS.OPENAFS-KRN64
# corequisite

checkinstallscripts/openafs-clnt.checkinstall
preinstallscripts/openafs-clnt.preinstall
configurescripts/openafs-clnt.configure
unconfigurescripts/openafs-clnt.unconfigure
preremovescripts/openafs-clnt.preremove

# Have SD create the /usr/vice/cache directories
#
file_permissions -u 222 -o root -g sys
directory /usr/vice/cache

file_permissions -u 222 -o bin -g bin
directory /usr/newconfig/vice
directory /usr/newconfig/vice/etc

file_permissions -u 222 -o root -g sys
directory files/afs = /afs

file_permissions -u 222 -o bin -g bin
directory files/usr/vice/etc = /usr/newconfig/usr/vice/etc

file_CellServDB
file_SuidCells
file_cacheinfo

file_permissions -u 222 -o root -g sys
directory ../.../hp_ux110/dest/root.client/usr/vice/etc = /usr/vice/etc

fileafsdb

directory ../.../hp_ux110/dest/lib = /usr/lib/security
file_permissions -u 222 -o bin -g bin
file pam_afs.so.1
file pam_afs.krb.so.1

# Startup links will be configured in the configure script

# File definition(s):
#
# To define the files contained in a fileset, you can:
# 1) specify default permissions,
# 2) specify files explicitly,
# 3) specify files implicitly,
# 4) map source pathnames to target pathnames.

class file_permissions
    -u 222 -o bin -g bin
directory  ../../../hp_ux110/dest/bin = /usr/afs/bin
    file  up
    file  cmdebug
end # fileset

# Put the afs kernel driver filesets into a subproduct
# in order that the prerequisite for the client fileset
# will automatically select the correct kernel fileset
# based on os-bitness

class subproduct
    tag "Kernel"
    title "OpenAFS Kernel Drivers"
    contents OPENAFS-KRN32 OPENAFS-KRN64
end

class fileset
    tag OPENAFS-KRN32
    title "OpenAFS 32bit Kernel Drivers"
    revision A.1.2.10
    machine_type *:32*  # Machines the product supports (uname -m).
    os_name  HP-UX  # OS'es the product supports (uname -s).
    os_release ?.11.00# OS releases the product supports (uname -r).
    os_version *  # OS versions the product supports (uname -v).
    architecture HP-UX_B.11.00_32
    ancestor OPENAFS.OPENAFS-KRN,fa=HP-UX_B.11.00_32,fr=<A.1.2.10

description < data/openafs-krn.description

    is_kernel true
    is_reboot true

    # Dependency definition(s):
    #

    # prerequisite
    # corequisite
    exrequisite OPENAFS.OPENAFS-KRN64

    checkremove scripts/openafs-krn.checkremove
    configure scripts/openafs-krn.configure
postinstall scripts/openafs-krn.postinstall
unconfigure scripts/openafs-krn.unconfigure
verify scripts/openafs-krn.verify

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory ../../hp_ux110/dest/root.client/bin = /usr/conf/lib
  filelibafs.nonfs.alibafs.a

file_permissions -u 222 -o bin -g bin
directory ../../hp_ux110/dest/root.client/usr/vice/etc = /usr/conf/master.d
  file afs.driverafs

directory

end # fileset

fileset
tag OPENAFS-KRN64
title "OpenAFS 64 bit Kernel Drivers"
revision A.1.2.10
os_name  HP-UX  # OS'es the product supports (uname -s).
  os_release ?.11.00# OS releases the product supports (uname -r).
  os_version * # OS versions the product supports (uname -v).
  machine_type *:64*
architecture HP-UX_B.11.00_64
ancestor OPENAFS.OPENAFS-KRN,fa=HP-UX_B.11.00_64,fr=<A.1.2.10

description < data/openafs-krn.description

is_kernel true
is_reboot true

# Dependency definition(s):
#

# prerequisite
# corequisite
exrequisite OPENAFS.OPENAFS-KRN32

cHECKREMOVAL  scripts/openafs-krn.checkremove
configure scripts/openafs-krn.configure
postinstall scripts/openafs-krn.postinstall
unconfigure scripts/openafs-krn.unconfigure
verify scripts/openafs-krn.verify

# File definition(s):
#
file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.client/bin = /usr/conf/lib
    file libafs64.nonfs.a libafs.a

end # fileset
# End of Kernel subproduct
#
# We can call this whatever you like, the name falls in line
# with other SD packaged media
#
fileset
    tag OPENAFS-DEV
    title "OpenAFS Developers Kit"
    revision A.1.2.10
    architecture HP-UX_B.11.00_64
    ancestor OPENAFS.OPENAFS-DEV,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10
    machine_type *:32*

description < data/openafs-krn.description

    is_kernel false
    is_reboot false

    # Dependency definition(s):
    #
    # prerequisite
    # corequisite

    #unconfigure scripts/openafs-dev.unconfigure
    #verify scripts/openafs-dev.verify
    #checkremove scripts/openafs-dev.checkremove
    #preremove scripts/openafs-dev.preremove
    #postremove scripts/openafs-dev.postremove
    #ucontrol_file scripts/openafs-dev.subscript

    # File definition(s):
    #
    #    file_permissions -u 222 -o bin -g bin
    #    directory ../../../hp_ux110/dest/include = /usr/afs/include
    #    file *

    file_permissions -u 222 -o bin -g bin
directory ../../../hp_ux110/dest/root.perf/include/afs = /usr/afs/include/afs
    file afs_stats.h # Included above
# file  afs_sysnames.h  # Included above
file  afs_usrops.h
# file  param.h  # Different param.h than above
# file  stds.h
    file  sysincludes.h

end # fileset

# The ManualsByLang subproduct contains manual pages by language

subproduct
tag   ManualsByLang
title   "Manuals by Language"
contents  OPENAFS-ENG-MAN
end # Manuals subproduct

fileset
tag   OPENAFS-ENG-MAN
title   "OpenAFS English Manual Pages"
revision  A.1.2.10
architecture  HP-UX_B.11.00_32/64
ancestor  OPENAFS.OPENAFS-ENG-MAN,fa=HP-UX_B.11.00_32/64,fr=<A.1.2.10

# description < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#

# prerequisite
# corequisite

configure  scripts/openafs-eng-man.configure
unconfigure  scripts/openafs-eng-man.unconfigure
#verify   scripts/openafs-eng-man.verify
#checkremove  scripts/openafs-eng-man.checkremove
#preremove  scripts/openafs-eng-man.preremove
#postremove  scripts/openafs-eng-man.postremove
#control_file  scripts/openafs-eng-man.subscript

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory  /usr/afs/man
directory  /usr/afs/man/man1
directory   ../../../src/man = /usr/afs/man/man1
           file   *

           end # fileset
           end # product

This is the depot copyright.
# After changing this file, please run
#    git ls-files -i --exclude-standard
# to check that you haven't inadvertently ignored any tracked files.

*.rtf
# File:         psf-1.2.10-11.22
#
# Purpose:      OpenAFS Product Specification File (PSF) for swpackage
#
# Copyright:    Copyright (c) 2003 International Business Machines Corporation and others. All Rights Reserved.
#
# Header:       $Header$
#
# Description:  This PSF contains a valid product definition which includes
#               all attributes for OpenAFS installation via software Distributor
#This psf is for 11.22, Itanium only
#
# Not all control scripts are required for installation of a product/fileset
#
# Below is the list of control scripts that can be used on either
# Products or filesets
# Control script definition(s):
#
# Control scripts are optional. If defined, then specify the
# path to the script file.
#
# NOTE: control scripts can be defined for products too.

#checkinstall path       # Install check script
#preinstall  path        # Install pre-load script
#postinstall path        # Install post-load script
#configure   path        # Configure for use script
#unconfigure  path       # Configure undo script
#verify       path        # Verify integrity script
#checkremove  path        # Remove check script
#preremove    path       # Remove pre-remove script
#postremove   path        # Remove post-remove script
#control_file path       # Addition (sub)script or control data

vendor
tag       "OpenSource"  # The identifier for the vendor.
title     "OpenSource Software"  # The name of the vendor.

# uuid       ""  # The NetLs UUID for the vendor.
description < data/vendor.description  # A multi-line description of the vendor.

end #Vendor

# Product definition(s):
#
# All product attributes are optional, except for the tag and the
# filesets which must be contained within it.

product

tag         "OPENAFS"  # The identifier for the product.
title       "Open Source Andrews File System"  # The name of the product.
revision    "B.1.2.10"  # The revision (release) number of the product.

#number"the_number"    # The order/part number for the product.
category    "OpenSource"  # The type of software (identifier).
#category_title "the category title"  # The type of software (string).

description < data/product.description  # A file containing a
#multi-line description of the product.

copyright   "(c)Copyright 2002 International Business Machines Corporation and others. All Rights Reserved."

readme      < data/product.README  # A multi-page README for the product.

architecture HP-UX_B.11.22_IA/PA  # A concise summary of hardware/OS'es
# supported.

machine_type ia64*    # Machines the product supports (uname -m).
os_name     HP-UX  # OS'es the product supports (uname -s).
os_release  ?.11.22# OS releases the product supports (uname -r).
os_version  *  # OS versions the product supports (uname -v).

directory   /usr/afs  # The root directory for the product
is_locatable false  # If defined then users can install the product
# into any directory they specify.

# Control script definition(s):
#
# Control scripts are optional. If defined, then specify the
# path to the script file.
#
# NOTE: control scripts can be defined for products or filesets

```
configure  scripts/openafs.configure
unconfigure  scripts/openafs.unconfigure
```

# Subproduct definition(s):
#
# Subproducts are optional. If defined, then they group/partition
# the product's filesets into logical sets. If defined, then the
# tag and contents are required.
#
# The Runtime subproduct contains anything that is pertinent to
# either the server or client products
#
subproduct
tag  Runtime
title "Runtime Requirements for OpenAFS Client and Server"
contents  OPENAFS-RUN
end # Runtime subproduct

fileset
tag  OPENAFS-RUN
title "OpenAFS Runtime"
revision  B.1.2.10
architecture  HP-UX_B.11.22_IA/PA
machine_type ia64*  # Machines the product supports (uname -m).
os_name  HP-UX  # OS'es the product supports (uname -s).
os_release  ?.11.22# OS releases the product supports (uname -r).
os_version  *  # OS versions the product supports (uname -v).
ancestor  OPENAFS.OPENAFS-RUN,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10

description  < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
# prerequisite
corequisite

#configure  scripts/openafs-run.configure
#unconfigure  scripts/openafs-run.unconfigure
#preremove  scripts/openafs-run.preremove
#postremove  scripts/openafs-run.postremove
# File definition(s):
#
# To define the files contained in a fileset, you can:
#
# 1) specify default permissions,
# 2) specify files explicitly,
# 3) specify files implicitly,
# 4) map source pathnames to target pathnames.

file_permissions -m 755 -o root -g sys
directory /usr/afs

file_permissions -u 222 -o root -g sys
directory /usr/vice
directory /usr/vice/etc
directory /usr/vice/etc/config

directory ../hp_ux110/dest/bin = /usr/afs/bin

file_permissions -u 222 -o root -g sys

file afsmonitor
file bos
file compile_et
file dlog
file dpass
file fs
file install
file klog
file klog.krb
file knfs
file kpasswd
file livesys
file rxgen
file pagsh
file pagsh.krb
file pts
file scout
file sys
file tokens
file tokens.krb
file translate_et
file udebug
file unlog
file xstat_cm_test
file xstat_fs_test

file_permissions -m 755 -o root -g sys
directory ../hp_ux110/dest/etc = /usr/afs/bin
file_permissions -u 222 -o root -g sys
  file backup
  file butc
  file copyauth
filefms
filestrace
  filekas
fileread_tape
filerestorevol
filerxdebug
fileuss
  filevos

  file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/root.client/usr/vice/etc/dkload = /usr/newconfig/sbin/init.d
fileafs.rcafs

end # fileset
#
# The DocsByLang subproduct contains documentation pages by language

subproduct
tag DocsByLang
title "Manuals by Language"
contents OPENAFS-ENG-DOC
end # Manuals subproduct

fileset
tag OPENAFS-ENG-DOC
title "OpenAFS English Documentation"
revision B.1.2.10
machine_type ia64*  # Machines the product supports (uname -m).
os_name HP-UX  # OS'es the product supports (uname -s).
os_release ?.11.22# OS releases the product supports (uname -r).
os_version * # OS versions the product supports (uname -v).
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-ENG-DOC,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10
description < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
# prerequisite
# corequisite
#unconfigure  scripts/openafs-eng-man.unconfigure
#verify       scripts/openafs-eng-man.verify
#checkremove  scripts/openafs-eng-man.checkremove
#preremove    scripts/openafs-eng-man.preremove
#postremove   scripts/openafs-eng-man.postremove
#control_file scripts/openafs-eng-man.subscript

file_permissions -u 222 -o root -g sys
directory    ./doc = /usr/afs/doc
file*

end # fileset

files

tag     OPENAFS-SRV
title   "OpenAFS Server"
machine_type ia64*  # Machines the product supports (uname -m).
os_name   HP-UX   # OS'es the product supports (uname -s).
os_release ?.11.22# OS releases the product supports (uname -r).
os_version * # OS versions the product supports (uname -v).
revision   B.1.2.10
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-SRV,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10
description < data/openafs-srv.description

is_kernel false
is_reboot false

# Dependency definition(s):
#

# Require that the Runtime product be in place before installing
# Server product.

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN64
# corequisite

configure    scripts/openafs-srv.configure
unconfigure  scripts/openafs-srv.unconfigure
preremove    scripts/openafs-srv.preremove

#verify       scripts/openafs-srv.verify
# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory /sbin/fs/afs

file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/root.server/etc = /sbin/fs/afs

filebcheckrc

filemount

fileumount

filevfsck fsck

file_permissions -m 755 -o root -g sys
directory ../hp_ux110/dest/root.server/usr/afs/bin = /usr/afs/bin

file_permissions -u 222 -o root -g sys

filebosserver
filebuserver
filefileserver
filekaserver
filekpwvalid
filept_util
fileptserver
filesalvager
fileupclient
fileupserver
filevlserver
filevolinfo
filevolserver

file_permissions -m 755 -o root -g sys
directory ../hp_ux110/dest/etc = /usr/afs/bin

file_permissions -u 222 -o root -g sys

file kadb_check
file kdb
file kdump
file kdump32
file kdump64
file kseal
file rmtsysd
file vsys

fileprdb_check
filevlodb_check
end # fileset

fileset
tag OPENAFS-CLNT
title "OpenAFS Client"
revision B.1.2.10
machine_type ia64* # Machines the product supports (uname -m).
    os_name      HP-UX   # O'Ss the product supports (uname -s).
    os_release   ?.11.22# OS releases the product supports (uname -r).
    os_version   * # OS versions the product supports (uname -v).
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-CLNT,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10
description < data/openafs-clnt.description

is_kernel false
is_reboot false

# Dependency definition(s):
#
# If the client is installed, you must install the kernel driver
#
# This prereq means that the kernel fileset must be installed

prerequisite OPENAFS.OPENAFS-RUN
prerequisite OPENAFS.OPENAFS-KRN64
# corequisite

checkinstallscripts/openafs-clnt.checkinstall
preinstallscripts/openafs-clnt.preinstall
configurescripts/openafs-clnt.configure
unconfigurescripts/openafs-clnt.unconfigure
preremovescrpt/openafs-clnt.preremove

# Have SD create the /usr/vice/cache directories
#
file_permissions -u 222 -o root -g sys
directory /usr/vice/cache

file_permissions -u 222 -o bin -g bin
directory /usr/newconfig/vice
directory /usr/newconfig/vice/etc

file_permissions -u 222 -o root -g sys
directory files/afs = /afs
file_permissions -u 222 -o bin -g bin
directory files/usr/vice/etc = /usr/newconfig/usr/vice/etc
fileCellServDB
fileSuidCells
filecacheinfo

file_permissions -u 222 -o root -g sys
directory ../hp_ux110/dest/root.client/usr/vice/etc = /usr/vice/etc
fileafsds
directory ../hp_ux110/dest/lib = /usr/lib/security
file_permissions -u 222 -o bin -g bin
file pamafs.so.1
file pamafs.krb.so.1

# Startup links will be configured in the configure script

# File definition(s):
#
# To define the files contained in a fileset, you can:
#
# 1) specify default permissions,
# 2) specify files explicitly,
# 3) specify files implicitly,
# 4) map source pathnames to target pathnames.

file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/bin = /usr/afs/bin
file up
file cmdebug

end # fileset

#
# Put the afs kernel driver filesets into a subproduct
# in order that the prerequisite for the client fileset
# will automatically select the correct kernel fileset
# based on os-bitness, leaving as a subproduct for now
subproduct
tag Kernel
title"OpenAFS Kernel Drivers"
contents OPENAFS-KRN64
end
fileset
tag OPENAFS-KRN64
title "OpenAFS 64 bit Kernel Drivers"
revision B.1.2.10
os_name HP-UX # OS'es the product supports (uname -s).
os_release  11.22# OS releases the product supports (uname -r).
os_version * # OS versions the product supports (uname -v).
machine_type ia64*
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-KRN,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10

description < data/openafs-krn.description

is_kernel true
is_reboot true

# Dependency definition(s):
#

# prerequisite
# corequisite
exrequisite OPENAFS.OPENAFS-KRN32

checkremove scripts/openafs-krn.checkremove
configure scripts/openafs-krn.configure
postinstall scripts/openafs-krn.postinstall
unconfigure scripts/openafs-krn.unconfigure
verify scripts/openafs-krn.verify

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/root.client/bin = /usr/conf/lib
    file libafs64.nonfs.a libafs.a

end # fileset
# End of Kernel subproduct
#
# We can call this whatever you like, the name falls in line
# with other SD packaged media
#
filese10
tag OPENAFS-DEV
title "OpenAFS Developers Kit"
revision B.1.2.10
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-DEV,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10
machine_type ia64*

description < data/openafs-krn.description
is_kernel false
is_reboot false

# Dependency definition(s):
#

# prerequisite
# corequisite

#unconfigure scripts/openafs-dev.unconfigure
#verify scripts/openafs-dev.verify
#checkremove scripts/openafs-dev.checkremove
#preremove scripts/openafs-dev.preremove
#postremove scripts/openafs-dev.postremove
#ucontrol_file scripts/openafs-dev.subscript

# File definition(s):
#

#      file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/include = /usr/afs/include
#      file   *

file_permissions -u 222 -o bin -g bin
directory ../hp_ux110/dest/root.perf/include/afs = /usr/afs/include/afs
#      file   afs_stats.h # Included above
#      file   afs_sysnames.h # Included above
file   afs_usrops.h
#      file   param.h # Different param.h than above
#      file   stds.h
    file   sysincludes.h

end # fileset

# The ManualsByLang subproduct contains manual pages by language

subproduct
tag   ManualsByLang
title   "Manuals by Language"
contents OPENAFS-ENG-MAN
end # Manuals subproduct

filesset
tag   OPENAFS-ENG-MAN
title   "OpenAFS English Manual Pages"
revision B.1.2.10
architecture HP-UX_B.11.22_IA/PA
ancestor OPENAFS.OPENAFS-ENG-MAN,fa=HP-UX_B.11.22_IA/PA,fr=<B.1.2.10
# description < data/openafs-run.description

is_kernel false
is_reboot false

# Dependency definition(s):
#

# prerequisite
# corequisite

configure  scripts/openafs-eng-man.configure
unconfigure  scripts/openafs-eng-man.unconfigure
#verify    scripts/openafs-eng-man.verify
#checkremove scripts/openafs-eng-man.checkremove
#preremove  scripts/openafs-eng-man.preremove
#postremove scripts/openafs-eng-man.postremove
#control_file scripts/openafs-eng-man.subscript

# File definition(s):
#

file_permissions -u 222 -o bin -g bin
directory  /usr/afs/man
directory  /usr/afs/man/man1
directory  ../src/man = /usr/afs/man/man1
file    *

end # fileset
end # product

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Version 1.1.1

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.
We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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 * <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [link javax.validation.ParameterNameProvider]. By default, [code arg0], [code arg1] etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
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* @author Gunnar Morling
*/

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* /opt/ws_local/PERMITS_SQL/1034036639_1591737461.06/0/hibernate-validator-5-4-3-final-sources-
zip/hibernate-validator-5.4.3.Final-sources/org/hibernate/validator/constraints/ParameterScriptAssert.java
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  zip/hibernate-validator-5.4.3.Final-sources/META-INF/validation-configuration-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1034036639_1591737461.06/0/hibernate-validator-5.4.3-final-sources-
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* /opt/ws_local/PERMITS_SQL/1034036639_1591737461.06/0/hibernate-validator-5.4.3-final-sources-
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1.1501 gettext 0.20.1

1.1502 libusb-compat 0.1.12-28

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Version 2.1, February 1999

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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.)

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Version: 5.0

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jQuery UI v1.12.1

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
1.1511 liberror-perl 0.17-1.2

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1.1512 go-dockerclient 1.2.2

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1.1513 core-module 1.1.3

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

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.1518 redis 5.0.3

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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.

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* 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.

  Author: Julio Merino <jmmv84@gmail.com>
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==============

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### 1.1524 commons-lang3 2.6

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The End

1.1539 coreutils 8.31

1.1540 jetty-http 9.2.24.v20180105

1.1541 metrics-graphite 4.0.5

1.1542 gzip 1.6 5+b1

1.1542.1 Available under license:

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1.1545 libxi 1.7.9-1.el7

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1.1546 busybox 1.29.3-r10

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of 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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1.1549 metrics-logback 3.1.5

1.1550 bcel 5

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1.1551 e2fsprogs 1.42.13 1ubuntu1

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007 

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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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$<$(BSD_LIB) .
$(RM) -rf $(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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Theodore Ts'o
23-June-2007

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

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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 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-  
- Copyright (C) Andrew Tridgell 2005
**NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released

/*

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Gadi Oxman, August 1995

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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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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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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 the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
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This package was put together by Yann Dirson <dirson@debian.org>,
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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

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

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

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

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

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

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

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

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

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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a purpose that is entirely well-defined independent of the
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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.

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b) Use a suitable shared library mechanism for linking with the
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-- vile: txtmode file-encoding=utf-8
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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

------------------------------------------------------------------------
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1.1569 jsp 2.3.FR

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1.1571 glib 2.56.4-0ubuntu0.18.04.6

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1.1573 go-humanize 1.0.0

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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);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    
+int display_legal(pam_handle_t *pamh)
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);
}
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);
}
finished:
+    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;
}

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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1.1577 base-files 10.1ubuntu2.8

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1.1587 zlib 1.2.8.dfsg 2ubuntu4.1

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1.1589 fortify-headers 0.9-r0

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pkgname=perl-bsd-resource
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pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
default_prepare

cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make
}

check() {
  cd "$builddir"
  make test
}

package() {
  cd "$builddir"
  make DESTDIR="$pkgdir" install
  find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb6b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fe16d6c9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
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pkgname=py-flake8-copyright
  _pkgname=flake8-copyright
pkgver=0.2.0
  pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
  cd "$builddir"
  python3 setup.py build || return 1
}

package() {
  cd "$builddir"

Open Source Used In cnBR 20.2-06042020 17683
python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef2eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fcccfe2b73  flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1baeed3a525ac37da12b1f2ec33e204cc69b72d05cd3956e528aff5d58c3b1be9570f4a977a7e2417b58e543bfa12abce256b2023c8c4993eeb90  flake8-copyright-0.2.0.tar.gz"

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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer:
pkgname=spdx-licenses
pkgver=3.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
option="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"
_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
    cd "$builddir"
}

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname"
    mkdir -p "$subpkgdir/"usr/share/spdx
cp -r "$builddir"/"$type "$subpkgdir/"usr/share/spdx/"
list() {
  pkgdesc="$pkgdesc (licence list)"
  mkdir -p "$subpkgdir"/usr/share/spdx
  local i; for i in $builddir/text/*.txt; do
    local license=${i##*/}
    echo $license%.* >> "$subpkgdir"/usr/share/spdx/license.lst
  done
}

sha512sums="8fb3725c154b95e8af1c4b15691c528b81028f6ac228c6c34bd1372160891d49a4a449c6b44a97d813a3
  28afa3c5f60272e96420cdd0ce38c96f9e512996cda3 license-list-data-3.0.tar.gz"

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://wwwлепien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
  cd "$_builddir"
  update_config_sub || return 1
}

build() {
  cd "$_builddir"
  ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr \
    || return 1
  make || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}
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1.1594 jnr-constants 0.9.14
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1.1609 libjpeg 1.2.90 8.el7

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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

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 "jpegtan", a utility for lossless transcoding between different JPEG processes, and "rdipgcom" 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, ltcfg, ltmaint,ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

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

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

We are required to state that
"The Graphics Interchange Format is the Copyright property of CompuServe Incorporated. GIF is a Service Mark property of CompuServe Incorporated."

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

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

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

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

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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

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

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

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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

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

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

FILE FORMAT WARS

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

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

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

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

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266e2df055067c18f2e9 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
1b6fb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df15a88a045db233418dd73f 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
2e1cee529cb59c9341afef0443f196a1 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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1.1615 guava 24.1.1

1.1616 lzo 2.08 1.2+b2

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the fileHandle, 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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1.1621 unzip 6.0-20.el7

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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 unimploade() 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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"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
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The decompression core code for the deflate method (inflate.[ch],
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1.1622 joda-time 2.10.1
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<h3>3. Lao Word Break Dictionary Data (laodict.txt)</h3>
4. Time Zone Database

ICU uses the public domain data and code derived from the Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply.
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</pre>
## Compilation rules

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

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

## Dependency rules

%.d: $(srcdir)/%.c  
@echo "generating dependency information for $<"  
@$(SHELL) -ec '$(GEN_DEPS.c) $<  
| sed "s/\$\(\*\)\.o[ ]*: [ ]/\1.o $@ : /g" > $@;  
[ -s $@ ] || rm -f $@'  

%.d: $(srcdir)/%.cpp  
@echo "generating dependency information for $<"  
@$(SHELL) -ec '$(GEN_DEPS.cc) $<  
| sed "s/\$\(\*\)\.o[ ]*: [ ]/\1.o $@ : /g" > $@;  
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)  
$(RM) $@ && ln -s ${<F} $@  
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)  
$(RM) $@ && ln -s {*F}.${SO}.$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use  
BIR_LDFLAGS= -Wl,- Bsymbolic

# Dependencies [i.e. map files] for the final library  
BIR_DEPS=

## Remove shared library 's'  
STATIC_PREFIX_WHEN_USED =  
STATIC_PREFIX =

## End BSD-specific setup
1.1624 websocket 1.1.FR
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1.1625 netty 3.10.5

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1.1626 netty-handler 4.1.43

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1.1628 lucene-misc 8.4.0

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@heading TERMS AND CONDITIONS

@enumerate 0

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@item
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@end enumerate

@end enumerate

@end example
@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

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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.

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Mersenne Twister
--------------

The `_random' module includes code based on a download from
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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)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

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/about/index.html'.

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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

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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 Python Labs team. In October of the same year, the Python Labs 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
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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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-----------------

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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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-------

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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)

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

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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. 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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<th>Owner</th>
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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
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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.

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```

1.1644 sed 4.2.2 7

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```

```
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.1650 masterminds-goutils 1.1.0
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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 @@
signed 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);
            }
        }

        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);
        }
    }

    if (pam_modutil_regain_priv(pamh, &privs)) {
        syslog(pamh, LOG_ERR,
               "Unable to change UID back to %d\n", privs.old_uid);
    }
}

f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+    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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#1perl

=head1 NAME

copyright.t
Tests that the latest copyright years in the top-level README file and the `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 `--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.

```perl
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) = $output =~ /copyright \d+\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

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

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n  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

1.1657 file 5.11 35.el7
1.1657.1 Available under license :

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1.1658 gmp 6.1.2+dfsg 2

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Version 3, 29 June 2007

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1.1665 jackson-annotations 2.8.11

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1.1666 libjpeg-turbo 1.5.3-r6

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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:
OVERVIEW

General description of JPEG and the IJG software.

LEGAL ISSUES

Copyright, lack of warranty, terms of distribution.

REFERENCES

Where to learn more about JPEG.

ARCHIVE LOCATIONS

Where to find newer versions of this software.

RELATED SOFTWARE

Other stuff you should get.

FILE FORMAT WARS

Software *not* to get.

TO DO

Plans for future IJG releases.

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW

========

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,
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 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/usenet/news.answers/jpeg-faq/.

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

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

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.
If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpegdjpeg 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.

1.1667 acl 2.2.52 3

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Version 2.1, February 1999

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1.1669 libxml 2.9.4+dfsg1 2.2+deb9u2

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1.1670 libgd 2.2.5-4ubuntu0.3

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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 Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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

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

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

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

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

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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 librpng library uses our library to implement TIFF/JPEG per the Note. librpng 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/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to
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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1.1671 apk-tools 2.10.4-r2

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1.1672 debian-archive-keyring 2017.5~deb8u1

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<mvo@debian.org>

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1.1673 python-iniparse 0.4-9.el7

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iniparse/compat.py and tests/test_compat.py contain code derived from lib/python-2.3/ConfigParser.py and lib/python-2.3/test/test_cfgparse.py respectively. Other code may contain small snippets from those two files as well. The Python license (LICENSE-PSF) applies to that code.

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

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

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

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

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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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1.1682 systemd 237-3ubuntu10.40

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
---
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>.'"
built_requirers:
   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:
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version: 3
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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
    Ty Coon, President of Vice

That's all there is to it!

1.1699 python-setuptools 20.7.0-1
1.1699.1 Available under license :
No license file was found, but licenses were detected in source scan.

==================================================================
Building and Distributing Packages with Setuptools
==================================================================

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on ``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing `setuptools`

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```bash
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
```
As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    # If any package contains *.txt or *.rst files, include them:
    package_data = {
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },
    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '*': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },
    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",  # project home page, if any
    # could also include long_description, download_url, classifiers, etc.
)
```
In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ''c'': ''pre'', ''preview'', and ''rc''. So, version ``2.4c1`` and ``2.4-1`` and ``2.4preview`` are all the exact same version as ``2.4c1`` and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (`-`). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision
numbers, or date stamps from the release number. For example, the version "2.4-r1263" might denote Subversion revision 1263 of a post-release patch of version "2.4". Or you might use "2.4-20051127" to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, "0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that "dev" is a pre-release tag, so this version is a *lower* version number than "0.6a9", which would be the actual ninth alpha of release 0.6. But the "-r41475" is a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version "1.9adev" is the "adev" prerelease of "1.9", *not* a development pre-release of "1.9a". Use ".dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a0dev", and even "1.9.a.dev" are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the "pkg_resources.parse_version()" function to compare different version numbers:::

    >>> from pkg_resources import parse_version
    >>> parse_version('1.9a.dev') == parse_version('1.9a0dev')
    True
    >>> parse_version('2.1-rc2') < parse_version('2.1')
    True
    >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
    True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* Tagging and "Daily Build" or "Snapshot" Releases
* Managing "Continuous Releases" Using Subversion
* The 'egg_info' command

New and Changed "setup()" Keywords

====================================================================
The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

``include_package_data``

If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``

A dictionary mapping package names to lists of glob patterns that should be excluded from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``

A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``

A dictionary mapping names of “extras” (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring
``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the "setup script" to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using "EasyInstall") before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they’re not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` **and** `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg’s metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project’s "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3’s ``zope`` package is a namespace package, because subpackages like ``zope.interface`` and ``zope.publisher`` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package’s `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the
`test`_ command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the ``test`` command, ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``
If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `"foo.png"` in package `"bar/baz"`, you would include the string `"bar/baz/foo.png"` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or
shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`_.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

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

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``src`` or ``lib`` as the first argument to ``find_packages()``. (And such projects also need something like ``package_dir = {'': 'src'}`` in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ``find_packages(exclude=['*.tests'])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=['*.tests', '*.tests.*'])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this:
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests")

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and
``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``. so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts
-----------------------

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in
order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
======================
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and ``pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `', '`, `'>=`, `'<`, `'>`, `'<`, `'>=`, `'<` or `'>=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `';'".

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `';''>1', >2''` becomes `';''>=1''`, and `''<2,<3''` becomes `''<3''`). `''!=''` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `''<2,>=2''` or `''==2,!=2''`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
 ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.
This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py install``, or ``setup.py develop``, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to ``sys.path`` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

   Note, by the way, that if you declare your dependencies in ``setup.py``, you do *not* need to use the ``require()`` function in your scripts or modules, as long as you either install the project or use ``setup.py develop`` to do development work on it. (See "Development Mode" below for more details on using ``setup.py develop``.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.  

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you
must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
vcs+proto://host/path@revision#egg=project-version
```

Be careful with the version. It should match the one inside the project files.

If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```
setup(
...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF
output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', "RXP"],
        'reST': ['docutils>=0.3'],
    }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    ...
This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the `[PDF]` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```
from setuptools import setup, find_packages
setup( ...
```
include_package_data = True
)

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.::

   from setuptools import setup, find_packages
   setup(
      ...
      package_data = {
         # If any package contains *.txt or *.rst files, include them:
         ': ["*.txt", "*.rst"],
         # And include any *.msg files found in the 'hello' package, too:
         'hello': ["*.msg"],
      }
   )

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

   setup.py
   src/
   mypkg/
      __init__.py
     mypkg.txt
   data/
      somefile.dat
      otherdata.dat

The setuptools setup file might look like this::

   from setuptools import setup, find_packages
   setup(
      ...
      packages = find_packages('src'), # include all packages under src
      package_dir = {'': 'src'}, # tell distutils packages are under src
      package_data = {

# If any package contains *.txt files, include them:
"": ["*.txt"],
# And include any *.dat files found in the 'data' subdirectory
# of the 'mypkg' package, also:
'mypkg': ["data/*.*"],
}
)
)

Notice that if you list patterns in ```package_data``` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (```/```) as the path separator, even if you are on Windows. setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ```package_data``` argument was previously only available in ```setuptools```, it was also added to the Python ```distutils``` package as of Python 2.4; there is `some documentation for the feature`__ available on the python.org website. If using the setuptools-specific ```include_package_data``` argument, files specified by ```package_data``` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ```include_package_data``` or ```package_data``` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ```exclude_package_data``` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'' : 'src'},  # tell distutils packages are under src
    include_package_data = True,  # include everything in source control
    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The ```exclude_package_data``` option is a dictionary mapping package names to lists of wildcard patterns, just like the ```package_data``` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all
packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were included as a result of using ``include_package_data``.

In summary, the three options allow you to:

``include_package_data``
Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API`_ of ``pkg_resources`` to access them. The ``pkg_resources`` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for a quick example of converting code that uses ``__file__`` to use ``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------
The `distutils` normally install general "data files" to a platform-specific location (e.g. `~/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

**Automatic Resource Extraction**

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `".dll"`, `".so"`, or `".dylib"`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native.libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `"eager_resources`", because they need to be present in the filesystem when
he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it
doesn’t have to special-case its built-in formats. They can just be treated the same as any other plugin’s entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    "",
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `"entry_points"` argument to `"setup()"` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `="` sign. The value consists of a dotted module name, optionally followed by a `:`, and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `"pkg_resources.require()"`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
-----------------------------

Some extensible applications and frameworks may need to define their own kinds
of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
=================================

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your
Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
==========================================

Using `setuptools`... Without bundling it!
-------------------------------------------

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed
on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ```setup.py sdist upload``` or ```setup.py bdist_egg upload``` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ```setup.py register``` to do that. Or you can do it all in one step, e.g. ```setup.py register sdist bdist_egg upload``` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ```setuptools```, you can specify the exact version and base download URL as parameters to the ```use_setuptools()``` function. See the function's docstring for details.)

What Your Users Should Know
----------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ```site-packages```, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ```easy_install```.

Network Access

If your project is using ```ez_setup```, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main ```site-packages``` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects.
using "easy_install", or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the "-f" option of "easy_install" to specify the directory to find eggs in. Users who have full network access can just use "-f" with the URL of your download page, and "easy_install" will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual’s sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use "setup.py develop" when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run "setup.py clean --all" and delete any obsolete ".pyc" or ".pyo". (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't "easy_install"! Setuptools currently supports "bdist_rpm", "bdist_wininst", and "bdist_dumb" formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils "install" command, it should be able to work with "setuptools". Some examples of "bdist" formats that this should work with include the "bdist_nsi" and "bdist_msi" formats for Windows.

However, packaging tools that build binary distributions by running "setup.py install" on the command line or as a subprocess will require modification to work with setuptools. They should use the "--single-version-externally-managed" option to the "install" command, combined with the standard "--root" or "--record" options. See the `install command` documentation below for more details. The "bdist_deb" command is an example of a command that currently requires
this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag
----------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok` or `setup.py easy_install --always-unzip` in your project directory, to install the package as a zipfile or directory, respectively.
In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages
------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope'],
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line:
__import__('pkg_resources').declare_namespace(__name__)

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

**Tagging and "Daily Build" or "Snapshot" Releases**

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g.
"stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r``)

* An 8-character representation of the build date (`--tag-date, -d``), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily`
that would perform the necessary tag, build, and rotate commands. Then, a
simpler script or cron job could just run `setup.py daily` in each project
directory. (And, you could also define sitewide or per-user default versions
of the `daily` alias, so that projects that didn't define their own would
use the appropriate defaults.)

Generating Source Distributions
----------------------------------

``setuptools`` enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems` for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's `.egg-info` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its `sdist` command omits nearly all of
the options that the distutils' more complex `sdist` process requires. For
all practical purposes, you'll probably use only the `--formats` option, if
you use any option at all.

Making your package available for EasyInstall
------------------------------------------

If you use the `register` command (`setup.py register`) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the `register` command. There
are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

``long_description``
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or
`#egg=project-version` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable
source distribution, or to HTML page(s) that have direct links to such, then
EasyInstall will be able to locate downloads automatically. If you want to
make Subversion checkouts available, then you should create links with either
`#egg=project` or `#egg=project-version` added to the URL. You should
replace `project` and `version` with the values they would have in an egg
filename. (Be sure to actually generate an egg and then use the initial part
of the filename, rather than trying to guess what the escaped form of the
project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds
of distributions, so EasyInstall will not select a Subversion checkout for
downloading unless it has a version included in the `#egg=` suffix, and
it's a higher version than EasyInstall has seen in any other links for your
project.

As a result, it's a common practice to use mark checkout URLs with a version of
"dev" (i.e., `#egg=projectname-dev`), so that users can do something like
this:
easy_install --editable projectname==dev

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like ``1.0a1.dev-r1263```, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263```, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```
The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```
Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------
``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-------------
Command Reference
-------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands

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

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.
Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options:

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
   --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.:

```
setup.py daily bdist_egg    # generate a daily-build .egg file
setup.py daily sdist       # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with ``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being
bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:
``develop`` - Deploy the project source in "Development Mode"
=====================================

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the
staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``
Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory. Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use
the `--install-dir` or `--d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`
Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `develop` section or on the command line.
``easy_install`` - Find and install packages

This command runs the `EasyInstall tool <easy_install.html>`_ for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

``_egg_info``

``_egg_info`` - Create egg metadata and set build tags

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be added in the following order:

``--tag-build=NAME, -b NAME``
Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=`` or `--tag-build=`` as an argument to the `egg_info` command.

``--tag-svn-revision, -r``
If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``
Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and
binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ```egg_info``` Options
-------------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ```src``` or ```lib``` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the ```package_dir``` argument to the ```setup()``` function, if any. If there is no ```package_dir``` set, this option defaults to the current directory.

```egg_info``` Examples
---------------------
Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in ```setup.cfg```::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that ```egg_info``` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ```easy_install``` or old-style installation
====================================================================================================================

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`

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

Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the `.egg-info` directory will be placed.

Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. _rotate:

``rotate`` - Delete outdated distribution files

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

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and ``-*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``*.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones:

```bash
setup.py rotate --match=.tar.gz --keep=3
```

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version:

```bash
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

``saveopts`` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command):

```bash
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options` to change where the options are saved. For
example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options
----------------------------

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

`--global-config, -g`
Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--user` or `--filename`.

`--user-config, -u`
Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `~$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `--global` or `--filename`.

`--filename=FILENAME, -f FILENAME`
Save settings to the specified configuration file to use. You can't combine this option with `--global` or `--user`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:
`setopt` - Set a distutils or setuptools option in a config file

==================================================================
This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option
names)::

    setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package
installation directory (short option names)::

    setup.py setopt -c install -o install_lib -r

Options for the `setopt` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is
set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options` (listed under the `saveopts` command, above) to determine which
distutils configuration file the option will be added to (or removed from).

``_test`` - Build package and run a unittest suite
==============================================

When doing test-driven development, or running automated builds that need
testing before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the `develop` command. The `test` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on `sys.path`, after first running `build_ext -i` and
`egg_info` to ensure that any C extensions and project metadata are
up-to-date.
To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--quiet` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.::

```python
setup(
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

```
upload
```

- Upload source and/or egg distributions to PyPI

The `upload` command is implemented and documented in `distutils.uploading.html`. Setuptools augments the `upload` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the `.pypirc` file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for `<username>` in `<repository>`: ********

Then, in `.pypirc`, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

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

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    | |-- build
    | | `-- html
    | | | |-- index.html
    | | | `-- tips_tricks.html
    | |-- conf.py
    | |-- index.txt
    | `-- tips_tricks.txt

You can simply pass the documentation directory path to the `upload_docs` command::
python setup.py upload_docs --upload-dir=docs/build/html

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

`--upload-dir`
The directory to be uploaded to the repository.

`--show-response`
Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools
--------------------------------

Creating `distutils` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)
Adding Commands
---------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running `install` or `develop` with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding `setup()` Arguments
---------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:bar_baz",
        ],
    },
)
```
"bar_baz = mypackage.some_module:validate_bar_baz",
],
]
)

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.
The ``egg_info`` command looks for extension points in an ``egg_info.writers`` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument ``foo_bar``, which is a list of lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any project that uses the argument:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. ``foo_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry_run`` setting when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write_file()`` and ``delete_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
---------------------------------------------

If the files you want to include in the source distribution are tracked using
Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called `foobar`, you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just
yield relative paths. So, yielding a subdirectory named "some/dir" under
the current directory should NOT be rendered as "./some/dir" or
"/somewhere/some/dir", but *always* as simply "some/dir".

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
with the absence of needed programs (i.e., ones belonging to the revision
control system itself. It *may*, however, use "distutils.log.warn()" to
inform the user of the missing program(s).

Subclassing "Command"

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this point.

XXX

Reusing "setuptools" Code

``ez_setup``

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this point.

XXX

``setuptools.archive_util``

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this point.

XXX

``setuptools.sandbox``

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this point.

XXX

``setuptools.package_index``

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this point.

XXX

Mailing List and Bug Tracker

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this point.

XXX
Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/_structures.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/specifiers.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/requirements.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/__init__.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/utils.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/markers.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/version.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/_compat.py
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/pkg_resources/_vendor/packaging/__about__.py

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464619_1591381526.45/0/python-setuptools-20.7.0/setup.py

1.1700 base-files 8+deb8u10

1.1700.1 Available under license:

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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

5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
# 7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply to the TZ Database or contributions that individuals make to it. Should any claims be made and substantiated against the TZ Database, the organization that is providing the IANA Considerations defined in this RFC, under the memorandum of understanding with the IETF, currently ICANN, may act in accordance with all competent court orders. No ownership claims will be made by ICANN or the IETF Trust on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.

6. Google double-conversion

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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"'
  }
);```
SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be `',
    'a valid SPDX license expression (without "LicenseRef"), `',
    '"UNLICENSED", or `',
    '"SEE LICENSE IN <filename>`",
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('MIT OR LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```

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'),
  {}
);```
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENCED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```
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The End

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    'RC4_ASM',
    'MD5_ASM',
    'VPAES_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'X25519_ASM',
    'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
],
'include_dirs': [
    '.',
    './include',
    './crypto',
    './crypto/include/internal',
],
'defines': ['<@openssl_defines_BSD-x86_64>'],
'cflags' : ['<@openssl_cflags_BSD-x86_64>'],
'libraries': ['<@openssl_ex_libs_BSD-x86_64>'],
'sources': ['<@openssl_sources>', '<@openssl_sources_BSD-x86_64>'],
}
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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

```javascript
require('spdx-license-ids')
```
Type: `<Array<string>>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...]
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```

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// Original can be found at:
// https://bitbucket.org/lindenlab/lsl
d// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

d// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])  
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# Constant-time SSSE3 AES core implementation.
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##
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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
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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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    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 :mod:`socket` module uses the functions, :func:`getaddrinfo` , and 
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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
--------------------------

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test_epoll

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Select kqueue

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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)<br>djb (supercop/crypto_auth/siphash24/little2)<br>Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtof and dtoa

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-------

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--------

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Coda Hale's Golang HdrHistogram https://github.com/codahale/hdrhistogram
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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
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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:

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

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

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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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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.

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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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1.1764 libsodium 1.0.18

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1.1765 python-pip 8.1.1 2ubuntu0.4

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1.1766 pwauth 2.3.11-0.2

1.1767 libmnl 1.0.3 5
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lib/snprintf.c, lib/snprintf.h:
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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1.1777 postgre-sql 10.8-r0

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1.1778 iputils 20161105 1ubuntu3
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1.1780 tdb 1.44.1-1ubuntu1.3

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1.1791 python-secretstorage 2.3.1-2

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1.1792 python-tz 2016.7-0.3

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1.1793 jnr-posix 3.0.51

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1.1794 python-stdlib-extensions 3.6.9-1~18.04

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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 (see http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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1.1795 argparse 0.8.1

1.1796 pythonurllib 1.19.1-1

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>  
* Added Timeout examples in docs

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

* Ian Cordasco <graffatcolmingov@gmail.com>  
* PEP8 Compliance and Linting  
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>  
* Support for standard library io module.

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

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

* Evgeny Kapun <abacababadabaca@gmail.com>  
* 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.skytt@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.

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

1.1797 gdbm 1.13-r1
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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#
src/gzip/adler32.c
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src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

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https://www.freetype.org

--- end of FTL.TXT ---

1.1802 xauth 1.0.10-1
1.1802.1 Available under license:

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