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Text Part Number: 78EE117C99-1322334084
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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

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1.12 python-requests 2.9.1

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1.13 alsa 1.0.28

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1.21 libcap-ng 0.6.6

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

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

[zlib]

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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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depend enc - epoll for Windows
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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

// no documentation yet
AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

// no documentation yet
EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
  Entity

  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

  // no documentation yet
  Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

1.33 gnutls 3.6.7-4+deb10u6

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1.40 kmod 18

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abstract: 'Build and install Perl modules'
author:
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  - "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
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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
   skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "",
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.46 netbase 6.1-r0

1.46.1 Available under license:

This package was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <ajt@debian.org> until 2001.
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1.47 gogoprotobuf 1.2.2-0.20190723190241-65acae22fc9d

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1.50 findutils 4.6.0+git+20190209 2
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It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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1.55 rpm 5.4.14

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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.

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

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

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

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

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

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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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1.71 semodule-utils 3.0-r0

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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**1.81 docker 19.03.15-**

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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```go
package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        {
            formatter.Context{Format: "{{InvalidFunction}}"},
```
```
// Template parsing error: template: :1: function "InvalidFunction" not defined
`
{
 formatter.Context{Format: "{{nil}}"},
 // Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`
{
 // Table format
 {
 formatter.Context{Format: NewSubscriptionsFormat("table", false)},

 // NUM  OWNER     PRODUCT ID            EXPIRES                         PRICING COMPONENTS
 1 owner1 productid1  2020-01-01 10:00:00 +0000 UTC  compstring
 2 owner2 productid2  2020-01-01 10:00:00 +0000 UTC  compstring
`
{
 formatter.Context{Format: NewSubscriptionsFormat("table", true)},

 // 1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
 2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`
{
 formatter.Context{Format: NewSubscriptionsFormat("table \{\.Owner\}\", false)},

 // OWNER
 owner1
 owner2
`
{
 formatter.Context{Format: NewSubscriptionsFormat("table \{\.Owner\}\", true)},

 // OWNER
 owner1
 owner2
`
// Raw Format
{

 // license: id1
 name: name1
 owner: owner1
 components: compstring

 license: id2
 name: name2
 owner: owner2
 components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
    
    Num: 1,
    Owner: "owner1",
    Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 10,
            },
        },

        ComponentsString: "compstring",
    },

    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID: "id2",
        Name: "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 10,
            },
        },

        ComponentsString: "compstring",
    },
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
    },
    {
        Num: 2,
        Owner: "owner2",
        Subscription: model.Subscription{
            ID: "id2",
            Name: "name2",
            ProductID: "productid2",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 20,
                },
            },
            ComponentsString: "compstring",
        },
    },
}
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
}
},
}
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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package engine

import (  
"time"
  
"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
 )

const (
defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}}
licenseCtx.Header = map[string]string{
  "Num": numHeader,
  "Owner": ownerHeader,
  "Name": licenseNameHeader,
  "ID": idHeader,
  "DockerID": dockerIDHeader,
  "ProductID": productIdHeader,
  "ProductRatePlan": productRatePlanHeader,
  "ProductRatePlanID": productRatePlanIDHeader,
  "Start": startHeader,
  "Expires": expiresHeader,
  "State": stateHeader,
  "Eusa": eusaHeader,
  "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
  formatter.HeaderContext
  trunc bool
  licenutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
  return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
  return c.l.Num
}

func (c *licenseContext) Owner() string {
  return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
  return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
  return c.l.String()
}

func (c *licenseContext) Name() string {
  return c.l.Name
}
func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
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import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"  "fmt"  "time"
  "github.com/docker/libtrust"
  "github.com/docker/licensing/lib/errors"
  "github.com/docker/licensing/lib/go-clientlib"
  "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  url := c.baseURI  url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)
  license := new(model.IssuedLicense)  if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
    return nil, err  }
  return license, nil }

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  keyID := license.KeyID  privateKey := license.PrivateKey  authorization, err := c.getAuthorization(ctx, license)  if err != nil {
    return nil, err  }

  signature, err := libtrust.ParseJWS(authorization)  if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
      "key_id": keyID,
      }, "license parse JWS failed")  }

  // TODO: Mason - replace this parseJWS with a non libtrust lib
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{
            "token": token,
            "invalid token"
        })
    }
}
return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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```go
package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
// type CheckResponse struct {
//     Expiration  time.Time `json:"expiration"
//     Token       string    `json:"token"
//     MaxEngines  int       `json:"maxEngines"
//     ScanningEnabled bool    `json:"scanningEnabled"
//     Type        string    `json:"licenseType"
//     Tier        string    `json:"tier"
// }

// IssuedLicense represents an issued license
// type IssuedLicense struct {
//     KeyID        string `json:"key_id"
//     PrivateKey   string `json:"private_key"
//     Authorization string `json:"authorization"
// }

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
}
```
if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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@subheading END OF TERMS AND CONDITIONS

@page
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*/
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 */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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The contents of the testdata directory are modified versions of
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XZ Utils <http://tukaani.org/xz/>

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep

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* gosmith - https://github.com/dvyukov/gosmith

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// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used // to unset it. This is rarely used directly, use ConnectorNoticeHandler and
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

func Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
    return c
}
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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package api

import (  
  "io/ioutil"  
  "strings"  
  "time"  
)

type License struct {  
  // The unique identifier of the license  
  LicenseID string `json:"license_id"`  

  // The customer ID associated with the license  
  CustomerID string `json:"customer_id"`  

  // If set, an identifier that should be used to lock the license to a  
  // particular site, cluster, etc.  
  InstallationID string `json:"installation_id"`  

  // The time at which the license was issued  
  IssueTime time.Time `json:"issue_time"`  

  // The time at which the license starts being valid  

StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid  bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
return string(data), nil

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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>>> go_compute_metadata-cd0da878c66091060d2e7403abd62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403abd62192b3e387e0
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>>> airbrake_gobrake_v2-c9d51ad624b5cc4e1bf8de730a09af4878ffe2d
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>>> api_googlearpi-dfa61ae24628a06502b9c2805d983b57e89399b5
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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8d8dfb0f2
>>> asaskevich_gvalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395e96
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>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239c2fcb3432a2

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>> krb5-1.16-2.ph2
>> libarchive-3.3.1-2.ph2
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>>> gcc-6.3.0-7.ph2
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>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
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>>> util-linux-2.32-1.ph2

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dd6f0f2

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

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>>> graylog2_go-gelf_gelf-master

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tomb - support for clean goroutine termination in Go.

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_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

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For the verification of the code, its output sequence file
mt19937int.out is attached (2001/4/2)

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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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By Steve Reid <sreid@sea-to-sky.net>
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Written by Gary V. Vaughan, 2004

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Bison implementation for Yacc-like parsers in C


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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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chkconfig:   2345 11 89
description: sets up CBQ-based traffic control

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```


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This C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson

-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.au.dk

Thanks to "two guys named Ian".

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$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $
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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory

(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,

which is used to allocate space off the run-time stack so

that it is automatically reclaimed upon procedure exit,

was inspired by discussions with J. Q. Johnson of Cornell.

J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can

be defined when compiling for your specific system, for

improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep

track of all alloca-allocated blocks, and reclaim any

that are found to be deeper in the stack than the current

invocation. This heuristic does not reclaim storage as

soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
  CTR DRBG with DF with AES-128, AES-192, AES-256 cores
  Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
  HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
  with and without prediction resistance

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

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Version 3, 29 June 2007

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.
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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

-------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

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Version 2.1, February 1999

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

Preamble

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

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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.

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

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

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

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

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

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 1.1 - 26 February 2007

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mgo - MongoDB driver for Go

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  </div>
  <div class="control">
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    {{#info-table-row label="Valid from" value=startTime}}
      {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM DD, YYYY hh:mm:ss A'}}
    {{/info-table-row}}
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{{/if}}
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<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
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        {{else}}
          <Icon @glyph="cancel-circle-outline" @size="l" class="icon-false" aria-hidden="true" />
          <span data-test-feature-status>Not Active</span>
        {{/if}}
      {{/info-table-row}}
    {{/each}}
  </div>
</section>
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The `/sys/license` endpoint is used to view and update the license used in Vault.

---

### `/sys/license`

~~> **Enterprise Only** These endpoints require Vault Enterprise.
The `/sys/license` endpoint is used to view and update the license used in Vault.

### Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

#### Sample Request

```shell-session
$ curl --header "X-Vault-Token: ..." http://127.0.0.1:8200/v1/sys/license
```

#### Sample Response

```json
{
"data": {
  "expiration_time": "2017-11-14T16:34:36.546753-05:00",
  "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
  "license_id": "temporary",
  "start_time": "2017-11-14T16:04:36.546753-05:00"
},
"warnings": ["time left on license is 29m33s"]
}
```

### Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

#### Parameters

- `text` `(string: <required>)` - The text of the license.

_DR Secondary Specific Parameters_

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.
### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```  

### Sample Request

```shell-session
$ curl \\n  --header "X-Vault-Token: ..." \\n  --request PUT \\n  --data @payload.json \\n  http://127.0.0.1:8200/v1/sys/license \\

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

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"

    SHA         *string  `json:"sha,omitempty"
    Size        *int     `json:"size,omitempty"
    URL         *string  `json:"url,omitempty"
    HTMLURL     *string  `json:"html_url,omitempty"
    GitURL      *string  `json:"git_url,omitempty"
    DownloadURL *string  `json:"download_url,omitempty"
    Type        *string  `json:"type,omitempty"
    Content     *string  `json:"content,omitempty"
    Encoding    *string  `json:"encoding,omitempty"
    License     *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempty"

    SPDXID         *string   `json:"spdx_id,omitempty"
    HTMLURL        *string   `json:"html_url,omitempty"
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Implementation *string   `json:"implementation,omitempty"
    Permissions    *[[]string `json:"permissions,omitempty"
    Conditions     *[[]string `json:"conditions,omitempty"
    Limitations    *[[]string `json:"limitations,omitempty"
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    licenses := []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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type Features uint
const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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1.85 x-text 0.3.5

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1.90 zlib 1.2.3

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

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DRuntime: Runtime Library for the D Programming Language

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

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1.92 nytimes-gziphandler 1.1.1

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1.93 secretstorage 2.3.1

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1.94 x-oauth2 0.0.0-20190604053449-0f29369cfe45

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```
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
}

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 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:
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:

```
```
```
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).

```go
code 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 as 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)
})
}

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

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

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

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (  
    "testing"
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)
}

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)
}

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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.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE
package RESOURCE

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
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project.
and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/723](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.

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:
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

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
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).

---

1.95 nomad 0.0.0-20191220223628-edc62acd919d

1.95.1 Available under license :

---

layout: docs
page_title: 'Commands: license'
description: |
The license command is used to interact with an enterprise license.

---

# Command: license

-> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

The `license` command provides cluster level management of the Nomad Enterprise license.

If ACLs are enabled then a token with operator privileges may be required in order to use this command.

Click [here](https://www.hashicorp.com/products/nomad/trial) to get a trial license for Nomad Enterprise.

## Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:
The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

-> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

```plaintext
nomad license get [options]
```
When ACLs are enabled, this command requires a token with the 'operator:read' capability.

## General Options

@include 'general_options_no_namespace.mdx'

## Examples

```
$ nomad license get
Product = nomad
License Status = valid
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Expires At = 2020-05-09 00:00:00 +0000 UTC
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Terminates At = 2020-05-10 00:00:00 +0000 UTC
Datacenter = *
Modules:
  governance-policy
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Preemption
  Audit Logging
  Sentinel Policies
```

```
$ nomad license get -stale=true
Product = nomad
License Status = valid
License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At = 2022-04-01 00:00:00 +0000 UTC
Terminates At = 2022-04-04 00:00:00 +0000 UTC
Datacenter = *
Modules:
```
Governance and Policy
Multi-cluster and Efficiency
Licensed Features:
- Automated Upgrades
- Enhanced Read Scalability
- Redundancy Zones
- Namespaces
- Resource Quotas
- Audit Logging
- Sentinel Policies
- Multi-region Deployments
- Automated Backups
- Multi-Vault Namespaces

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---
layout: api
page_title: License - Operator - HTTP API
description: |
The /operator/license endpoints allow for retrieving the Nomad Enterprise License.
---

# License Operator HTTP API
## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

```
<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/v1/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>
```

The table below shows this endpoint's support for [blocking queries](/api-docs#blocking-queries) and [required ACLs](/api-docs#acls).

```
<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>operator:read</code></td>
</tr>
</tbody>
</table>
```

### Sample Request

```
```shell-session
$ curl \n   https://localhost:4646/v1/operator/license
```

### Sample Response

```
```json
{
   "KnownLeader":false,
   "LastContact":0,
   "LastIndex":0,
   "License":{
      "CustomerID":"customer name",
      "ExpirationTime":"2020-06-01T14:50:16.581304556-04:00",
      "Features":[
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Redundancy Zones",
         "Namespaces",
         "Resource Quotas",
         "Preemption",
         "Audit Logging",
         "Setinel Policies"
      ],
      "Flags":{
         "modules": ["governance-policy"]
      }
   }
}
```
package command

import (  
    "testing"  
    "time"  
    "github.com/hashicorp/nomad/api"  
    "github.com/mitchellh/cli"  
    "github.com/stretchr/testify/require"  
)

var _ cli.Command = &LicenseGetCommand{ }

func TestCommand_LicenseGet_OSSErr(t *testing.T) {  
t.Parallel()  
  srv, _, url := testServer(t, false, nil)  
  defer srv.Shutdown()  
  ui := cli.NewMockUi()  
  cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}  
  code := cmd.Run([]string{"-address=" + url})  
  if srv.Enterprise {  
    require.Equal(t, 0, code)  
  } else {  
    require.Equal(t, 1, code)  
    require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")  
  }  
}

func TestOutputLicenseReply(t *testing.T) {  
  now := time.Now()  
  lic := &api.LicenseReply{  
    License: &api.License{  
      LicenseID: "licenseID",  
    },  
    "InstallationID": "#",  
    "IssueTime": "2020-06-01T08:50:16.581304556-04:00",  
    "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",  
    "Modules": ["governance-policy"],  
    "Product": "nomad",  
    "StartTime": "2020-06-01T08:50:16.581304556-04:00",  
    "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"  
  },  
  "RequestTime": 0  
}
CustomerID:  "customerID",
InstallationID:  "#",
IssueTime:  now,
StartTime:  now,
ExpirationTime:  now.Add(1 * time.Hour),
TerminationTime:  now,
Product:  "nomad",
Flags: map[string]interface{}{"
".: nil,
},
}

ui := cli.NewMockUi()

require.Equal(t, 0, OutputLicenseReply(ui, lic))

out := ui.OutputWriter.String()
require.Contains(t, out, "Customer ID")
require.Contains(t, out, "License ID")

package command

import (  
"fmt"  
"strings"  
"time"

"github.com/hashicorp/nomad/api"  
"github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{

type LicenseCommand struct {
    Meta
}

func (l *LicenseCommand) Help() string {
    helpText :=`
    Usage: nomad license <subcommand> [options] [args]

    This command has subcommands for managing the Nomad Enterprise license.
    For more detailed examples see:
    https://www.nomadproject.io/docs/commands/license/

    Retrieve the server's license:


$ nomad license get

...

return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
    return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
    return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
    now := time.Now()
    expired := resp.License.ExpirationTime.Before(now)
    outputLicenseInfo(ui, resp.License, expired)
    if expired {
        return 1
    }
    return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired bool) {
    expStr := ""
    if expired {
        expStr = fmt.Sprintf("Expired At\%s", lic.ExpirationTime.String())
    } else {
        expStr = fmt.Sprintf("Expires At\%s", lic.ExpirationTime.String())
    }
    validity := "valid"
    if expired {
        validity = "expired!"
    }
    output := []string{
        fmt.Sprintf("Product\%s", lic.Product),
        fmt.Sprintf("License Status\%s", validity),
        fmt.Sprintf("License ID\%s", lic.LicenseID),
        fmt.Sprintf("Customer ID\%s", lic.CustomerID),
        fmt.Sprintf("Issued At\%s", lic.IssueTime),
        expStr,
        fmt.Sprintf("Datacenter\%s", lic.InstallationID),
    }
    ui.Output(formatKV(output))
if len(lic.Modules) > 0 {
    ui.Output("Modules:")
    for _, mod := range lic.Modules {
        ui.Output(fmt.Sprintf("\t%s", mod))
    }
}

if len(lic.Features) > 0 {
    ui.Output("Licensed Features:")
    for _, f := range lic.Features {
        ui.Output(fmt.Sprintf("\t%s", f))
    }
}

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---

layout: docs
page_title: Nomad Enterprise License FAQ
description: >-
    Frequently Asked Questions pertaining to Nomad Enterprise Licensing.
---

# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.1.0+ent. Nomad Enterprise automatically load Nomad licenses when a Nomad server agent starts using Nomad Enterprise.

## Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.1.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. When the server instance initializes the license watcher, the server reads from either an environment variable or file. If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.
## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Nomad Enterprise v1.1.0

- [v1.1.0 Upgrade Guide](https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses)

- [Nomad License Documentation](https://www.nomadproject.io/docs/enterprise/license)

- [License configuration values documentation](https://www.nomadproject.io/docs/configuration/server#license_path)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license)

## Q: Does this affect Nomad or older versions of Nomad?

This change only affects Nomad Enterprise version v1.1.0+ent and later.

## Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present.
Nomad agents running with the `-dev` flag will also need a license.

## Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you follow the steps in the [upgrade guide](https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses), but have misconfigured the licensing steps, the server instances will stop during boot-up sequence.

If you do not check cluster health after adding new servers, and verify that the new servers have joined properly, then you may accidentally take down old servers without replacing them.

If you are using a trial license in production, this could cause issues as the cluster will fail to start once the trial expires.

If you have built automation around `nomad license put`, this command will fail as it has been removed from Nomad v1.1.0+.

## Q: What are some other gotchas?

You might not have access to your organization's Nomad license.
The 6-hour temporary license window is now removed, and a license is required for proper boot-up.
Running `nomad agent -dev` without a license will fail.
## Q: How can a user get their existing license to put on disk for an upgrade?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

You can use `nomad license get` to retrieve information about the license, but not the license itself.

## Q: What happens when a license expires?

If a license expires after a server node joins the cluster, the existing Enterprise features will continue to operate until a grace period expires.

The grace period duration is 1 day, and upon the end of the grace period the Nomad servers will shut down.

## Q: Will on-prem binaries with baked-in licenses work?

There is no impact to baked-in licensed binaries.

## Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

## Q: Where can users get a trial license for Nomad?

Visit https://nomadproject.io/trial for a free 30-day trial license.

## Q: When a Nomad client agent restarts, will it still need a license file?

Every time `nomad agent` runs as a server (or in `-dev`), it requires a license.

## Q: May I downgrade Nomad Enterprise from v1.1.0 to an earlier version?

Nomad cannot safely be rolled back to an earlier version.

This is not a supported operation due to the Nomad state store not having forward compatibility. The end result could be a crash loop.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license).

```go
package command

import (
    "fmt"

    "github.com/hashicorp/nomad/api"
    "github.com/posener/complete"
)

type LicenseGetCommand struct {
    Meta
```
func (c *LicenseGetCommand) Help() string {
    helpText := ``
    Usage: nomad license get [options]

    Gets the license loaded by the server. The command is not forwarded to the
    Nomad leader, and will return the license from the specific server being
    contacted.

    When ACLs are enabled, this command requires a token with the
    'operator:read' capability.

    General Options:

    ` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

    return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
    return complete.Flags{
    }
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
    return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
    return "Retrieve the current Nomad Enterprise License"
}

func (c *LicenseGetCommand) Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
    flags.Usage = func() { c.Ui.Output(c.Help()) }

    if err := flags.Parse(args); err != nil {
        c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
        return 1
    }

    client, err := c.Meta.Client()
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
        return 1
    }

    return 0
}
https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise or [here](https://nomadproject.io/trial) to get a trial license.

-> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster. See issue [gh-9958] for more details.

## Expiring Licenses

Nomad Enterprise license have an expiration time. You can read the license on a server with the `nomad license get` command:

```
$ nomad license get
Product    = nomad
License Status = valid
License ID     = eaaecbd5-b598-4fa4-b649-bb234bf49fa3
Customer ID    = ae94bddd-39bf-4c58-bf80-8a9468b0467c
Issued At      = 2021-03-29 14:47:29.024191 -0400 EDT
Expires At     = 2021-03-29 20:47:29.024191 -0400 EDT
Datacenter     = *
Modules:
    governance-policy
    multicluster-and-efficiency
Licensed Features:
As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

```plaintext
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400 [WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid license or license is expired"
```

When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

Note that if the server is restarted with an expired license, it will immediately stop.

## Configuring the License

See the server [license configuration] reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

~~> **Note:** An Enterprise license [tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=nomad/enterprise) is available to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.
```
NOMAD_LICENSE=misconfigured nomad agent -dev
==> No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer
``` 

See the [License commands](/docs/commands/license) for more information on interacting with the Enterprise License.

[gh-9958]: https://github.com/hashicorp/nomad/issues/9958
[releases site]: https://releases.hashicorp.com/nomad
[license configuration]: /docs/configuration/server#license_path
[license endpoint]: /api-docs/operator/license#updating-the-nomad-enterprise-license

1.96 gzip 1.8

1.96.1 Available under license:

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Version 3, 29 June 2007

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1.100 libgpg-error 1.35 1

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

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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): $(srcrel)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcrel)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

%.o: $(srcrel)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcrel)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \\
| sed \"s/\($*!\)\.o[ :]*A1.o $@ : /g\" > $@; \\
[ -s $@ ] || rm -f $@

%.d: $(srcrel)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \\
| sed \"s/\($*!\)\.o[ :]*A1.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
1.113 errors 0.8.1

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1.114 hd-parm 9.58

1.115 go-connections 0.4.0

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1.116 go-units v0.4.0

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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 
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All Python releases are Open Source (see http://www.opensource.org for 
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2.1.2 2.1.1 2002 PSF yes
2.1.3 2.1.2 2002 PSF yes
2.2 and above 2.1.1 2001-now PSF yes

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1.130 python 2.7.16-1

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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
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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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* @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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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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contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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

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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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

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

Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

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

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

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

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

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

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

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

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

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

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

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

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

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0. 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
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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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-coffbdf) 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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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 (brazil@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@mita.me.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

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

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

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

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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

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

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

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

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

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

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

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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
and see if he wants to relicense his code as LGPL... but at this 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 didn't 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 dictate to application writers 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

Open Source Used In IOS XR Software 7.7.1 2691
> > > 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
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, 01 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 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
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? :-)
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vitezslav
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
Fryisinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pateleleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Digez, Francisco
Fontenelle, Rafael
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   Todd C. Miller <Todd.Miller@sudo.ws>

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1.145 openssl 1.1.1l

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1.146 ryanuber-go-glob 1.0.0

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1.147 json-iterator-go 1.1.9

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Version 3, 29 June 2007

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* /opt/cola/permits/1211786222_1648130639.31/0/netcat-openbsd-1-195-orig-tar-gz/netcat-openbsd-1.195/socks.c
No license file was found, but licenses were detected in source scan.

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1.157 mtd-utils 1.5.1

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1.159 dhcp 4.3.0

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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        <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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1.163 findutils 4.6.0
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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
Alexander Artemenko
Aymeric Augustin
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Tim Graham
Thomas Grainger
Max Grender-Jones
Joshua Harlow
Anselm Kruis
Alexander Luknin
James Mills
Jordan Moldow
Berker Pekasag
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Mirko Rossini
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1.172 gawk 4.1.3

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1.176 sysstat 11.4.0

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```javascript
{
  "testfiles": [
    "test/*.uts",
    "test/contrib/*.uts"
  ],
  "remove_testfiles": [
    "test/linux.uts",
    "test/windows.uts",
    "test/contrib/cansocket_native.uts",
    "test/contrib/cansocket_python_can.uts"
  ],
  "onlyfailed": true,
  "preexec": {
    "test/contrib/*.uts": "load_contrib("%name%")",
    "test/cert.uts": "load_layer("tls")",
    "test/sslv2.uts": "load_layer("tls")",
    "test/tls*.uts": "load_layer("tls")"
  },
  "format": "text",
  "kw_ko": [
    "linux",
    "windows",
    "crypto_advanced",
    "ipv6",
    "vcan_socket"
  ]
}
```
1.186 pycurl 7.19.5

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1.187 atomic 0.0.0-20150920032501-a62ce929ffcc

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1.188 zlib 1.2.8

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1.189 base-files 10.3+deb10u7

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1.190 pcre 8.44

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1.196 go-autorest-validation 0.3.1

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1.197 sysv-init 2.86-1

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  * 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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1.198 cairo 1.14.6
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mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.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)

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added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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

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

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

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

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

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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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Appendix: How to Apply These Terms to Your New Libraries

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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
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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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d) If a facility in the modified Library refers to a function or 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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++++++++++++++++

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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1.204 yajl 2.1.0

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1.205 librepo 1.11.2-r0

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1.206 aws-sdk-go 1.37.19

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1.209 libtirpc 1.2.6

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1.211 audit 2.3.2

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1.215 busybox 1.24.1
1.215.1 Available under license :

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1.216 expat 2.2.9-r0

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1.217 google-api-go-client 0.29.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)*(//|#) Use of this source code is governed by a BSD-style license that can be found in the LICENSE file. `)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}
// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
            return nil
        }

        if err != nil {
            t.Fatal(err)
        }
    })
}

1.218 libpng 1.6.37
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Gocheck - A rich testing framework for Go

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

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* curve25519-donna: Curve25519 elliptic curve, public key function 
* 
* http://code.google.com/p/curve25519-donna/ 
* 
* Adam Langley <agl@imperialviolet.org> 
* 
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to> 
* 
* More information about curve25519 can be found here 
* http://cr.yp.to/ecdh.html 
* 
* djb's sample implementation of curve25519 is written in a special assembly 
* language called qhasm and uses the floating point registers. 
* 
* This is, almost, a clean room reimplementation from the curve25519 paper. It 
* uses many of the tricks described therein. Only the crecip function is taken 
* from the sample implementation. 
*/
1.223 tcp-wrappers 7.6-r10

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In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

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---
layout: api
page_title: /sys/license - HTTP API
description: |
The `/sys/license` endpoint is used to view and update the license used in
Vault.
---

# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

## Read License

-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead,
and see [License Status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
```
$ curl
   --header "X-Vault-Token: ..."
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response
```
```

## Read Signed License

-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
</tr>
</tbody>
</table>

### Sample Request
```
```
```

### Sample Response
```
```
```

---

Open Source Used In IOS XR Software 7.7.1 3665
## Install License

-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. The license will be replicated to the Vault instances within the targeted cluster, but will not replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a performance replication cluster, this must be run against a Vault instance within that cluster.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)*  
  The text of the license.

-_DR Secondary Specific Parameters_

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

  Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

If you are using a batch `dr_operation_token`, note you will need to add the following to the token's policy

```
```

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```shell-session
$ curl 
   --header "X-Vault-Token: ..."
   --request PUT
   --data @payload.json 
   http://127.0.0.1:8200/v1/sys/license
```
## Delete License

`~>` This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use `[license autoloading]([/docs/enterprise/license/autoloading])` instead.

This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
```
```
```
```
```
```

## License Status

This endpoint returns information about licensing. It returns similar information to a GET of `sys/license`, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing information the Vault cluster has. See `[license autoloading]([/docs/enterprise/license/autoloading])` for background.

In the response:

* `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise.
* `autoloaded` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloaded`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>
### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

### Sample Response

```json
{
  "data": {
    "autoloading_used": true,
    "autoloading": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine",
        "Automated Snapshots"
      ],
      "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
      "performance_standby_count": 9999,
      "start_time": "2021-05-17T00:00:00Z"
    },
    "persisted_autoload": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
```
The "license" command groups subcommands for interacting with Vault licenses.

## Examples

Query current license in use by a node:

```shell-session
$ vault license get

Key                          Value
---                          -----
expiration_time              2022-05-17T23:59:59.999Z
features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
```
```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```
For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
--layout: docs
page_title: Vault Enterprise License
description: An overview of license.
--# Vault License
Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the
[FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.
The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterpriselicense?in=vault/enterprise) tutorial provides the instruction to load your Vault license.
--layout: docs
page_title: license inspect - Command
description: |The "license inspect" command describes the contents of a signed license string.
--# license inspect
The `license inspect` command describes the contents of a signed license string.
## Examples
Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):
```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

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License is valid
```
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against

# Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from <a href="https://releases.hashicorp.com/vault/">releases.hashicorp.com</a>)</td>
<td>Yes</td>
</tr>
<tr>
<td>Open-Source (OSS)</td>
<td>No</td>
</tr>
<tr>
<td>Baked-in license binaries (pro/premium)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release.

Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?
The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement).

Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?] (#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?] (#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their
existing license-as-applied-via-the-CLI flow to the license on disk flow?[#q-what-is-the-migration-path-for-customer...at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre- Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade/in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.
Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
A mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)

* [license_path in config](/docs/configuration/license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands/vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands/vault_license)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/api/system/license#delete-license) to remove the stored license.

{{#if this.licenseExpired}}
  <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
    <AlertBanner
      @type="danger"
      @title="License expired"
      @message="Your Vault license expired on {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault."
      @marginless={{true}}
    >
      <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopener">Read documentation</a>
    </AlertBanner>
  </div>
{{/if}}

{{else if (lte this.licenseExpiringInDays 30)}}
  <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
    <AlertBanner
      @type="warning"
      @title="Vault license expiring"
      @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format @expiry "hh:mm:ss a"}} on {{date-format @expiry "MMM d, yyyy"}}. {{if @autoloaded 'Add a new license to your configuration.' 'Keep in mind that your next license will need to be autoloaded'}}"
      @marginless={{true}}
    >
      <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopener">Read documentation</a>
    </AlertBanner>
  </div>
{{/else}}
The `license get` command reports on the license in use. With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```shell-session
$ vault license get
| Key                          | Value                                                                 |
---                          | -----                                                                 |
expiration_time              | 2022-05-17T23:59:59.999Z                                                |
features                     | [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups]
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots] |
license_id                   | 060d7820-fa59-f95c-832b-395db0aeb9ba                                   |
performance_standby_count    | 9999                                                                    |
start_time                   | 2021-05-17T00:00:00Z                                                    |
```

Get stored license string:
Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

1.231 gmp 6.2.0

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

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

```
<program>  Copyright (C) <year>  <name of author>
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```

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Version 3, 29 June 2007

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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
*
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1.240 nettle 2.7.1

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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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*/

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.
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-
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Theodore Ts'o
23-June-2007

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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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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.

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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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Note that it is possible for a library to be covered by the ordinary
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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1.261 reflectwalk 1.0.1

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1.262 go-hclog 0.15.0

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1.271 libyaml 0.1.7

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1.281 python-cffi 1.12.2-1

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.283 pygobject 3.30.4

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Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
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Origin: configure.ac from XZ Utils,
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1.290 bridgeutils 1.6-r0

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1.298 idna 13.0.0

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1.299 minicom 2.7.1-r0

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Modemu Version 0.0.1

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-- vile: txtmode file-encoding=utf-8
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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This package is used for testing builds of ncurses.

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

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1.304 libsm 1.2.3

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1.307 procps 3.2.8

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1.308 dash 0.5.10.2 5

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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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.

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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:

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c) Accompany the work with a written offer, valid for at least
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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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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Written by: Philip Hazel
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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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jloup@gzip.org          madler@alumni.caltech.edu

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*

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
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Email domain: cam.ac.uk

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

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

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"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.

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
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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
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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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Appendix: How to Apply These Terms to Your New Libraries

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

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1.333 godbus

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

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

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

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

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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If 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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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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1.335 lua-cjson 2.1.0

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1.336 python-setuptools 40.8.0

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1.337 xmldiff 2.3

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1.338 godo 1.7.5

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Portions of the client are based on code at:
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1.339 libdaemon 0.14

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1.341 sudo 1.8.32-r0

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
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Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
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Hayman, Randy M.
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Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
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Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
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Nikitser, Peter A.
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Paquet, Eric
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Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
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Kramer, Jakob
Krznar, Tomislav
Marchal, Frédéric
Margevičius, Algimantas
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Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
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Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
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Upstream source http://invisible-island.net/mawk/mawk.html

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1.356 cpio 2.12

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* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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Network Working Group  H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational   M. Bellare
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HMAC: Keyed-Hashing for Message Authentication

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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code. If you link a program with the library, you must provide
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with the library, after making changes to the library and recompiling
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Our method of protecting your rights has two steps: (1) copyright
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The reason we have a separate public license for some libraries is that
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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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preserving your freedom as a user of such programs to change the free
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Note that it is possible for a library to be covered by the ordinary
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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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1.378 libsodium 1.0.18-r0

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 */

1.379 glib 2.58.3-2+deb10u3

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This package was debianized by Akira TAGOH <tagoh@debian.org> on Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <https://download.gnome.org/sources/glib/>.

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-------------
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Josh MacDonald  <jmacd@xcf.berkeley.edu>

Please do not mail the original authors asking questions about this version of GLib.

GLib Team

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The random number generator "Mersenne Twister", which is used by GLib,
was developed and originally coded by:
Makoto Matsumoto <matumoto@math.keio.ac.jp>
Takuji Nishimura <nisimura@math.keio.ac.jp>

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---

1.380 ipmi-tool 1.8.17

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1.381 cracklib 2.9.1
1.381.1 Available under license:

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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=20
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

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

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

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
>
> the original license (before moving to sourceforge -- aka, 2.7) was not=20
> GPL-2 ... it was a modified artistic license ... i didnt notice the license=
> =20
> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib unless th=
> eir=20
> applications are also GPL-2 which imo is just wrong. it isnt the place of =
> a=20
> library to dictact to application writes what license they should be using.=
> =20
> thus LGPL-2.1 enters to fill this void.
> =2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike
>
> Re: [Cracklib-devel] cracklib license
> From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

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

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

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

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

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

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1.382 ebtables 2.0.10

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# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
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#!/bin/sh
# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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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.

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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!

1.409 rsync 3.1.2

1.409.1 Available under license:

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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
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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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1.411 libsepol 3.0-r0

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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.416 python3-pyyaml 5.3.1-r0

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1.418 opkg-utils 0.4.2-r0

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### 1.424 libunwind 1.1

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1.428 libdaemon 0.14-r0

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1.429 hashicorp-serf 0.9.5

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================================Longrightarrow 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. 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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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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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.441 mongo-go-driver 1.4.6

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Last updated: 2009-02-28

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=== EOF ===

1.443 goprotobuf 1.2.0

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1.444 grub-efi 2.04-r0

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1.446 keyutils 1.6.1

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1.447 pciutils 3.5.1
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1.448 e2fsprogs 1.43.5

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

- trivial database library - private includes
-
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Theodore Ts'o
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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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

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

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# 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
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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Gadi Oxman, August 1995

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1.449 grep 2.19

1.449.1 Available under license:
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   * imap_gssapi.c is partially derived from sample code in:
   * GSS-API Programming Guide
   * Part No: 816-1331-11
   * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
    UCSD
    R. Canetti
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    February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.455 python 3.7.3 2+deb10u3

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
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1.462 x-sync 0.0.0-20200317015054-43a5402ce75a

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## version 0.1

## By Mike Hamburg (Stanford University), 2009

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This code is derived from section 17.1 of Applied Cryptography,
second edition, which describes a stream cipher allegedly
compatible with RSA Labs "RC4" cipher (the actual description of
which is a trade secret). The same algorithm is used as a stream
cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time
when initializing the state. That makes it impossible to
regenerate the same random sequence twice, so this can't be used
for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
written by Colin Plumb in 1993, no copyright is claimed.
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
except that you don't need to include two pages of legalese
with every copy.

To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

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1.466 diffutils 3.7-r0
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1.468 gnutls 3.5.13

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IDDLE-STATE-Excel AES core implementation.
## version 0.1

## By Mike Hamburg (Stanford University), 2009

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zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

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1.477 autogen 5.18.3

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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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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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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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.

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

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

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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Version 3, 29 June 2007

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

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

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

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

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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@end enumerate

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@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end example

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

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

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

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

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. 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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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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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@appendixsubsec Preamble

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it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
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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.

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 \textit{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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@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.

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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.)

@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.

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

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

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

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For 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 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.

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

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

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

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

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

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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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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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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
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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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1.497 fcgi 2.4.1

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1.500 edk2 202111

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Key Dates

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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):

https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:

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

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in this document.
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== Sample Change Description / Commit Message ==
== Start of sample patch email message ==

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

== End of sample patch email message ==

== Notes for sample patch email ==

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

== Definitions for sample patch email ==

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
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* "Signed-off-by" is the contributor's signature identifying them
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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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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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* DNS resolver (dirmngr/dns.c)

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History and License
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History of the software
========================

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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Mersenne Twister
--------------

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

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

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

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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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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Select kqueue

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--------

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Original location:
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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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

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

cfuhash
-------

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org
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1.512 go-autorest-auth 0.5.7

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1.514 python-setuptools 41.2.0
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1.515 rmtest 0.7.0
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1.517 html5lib 1.1

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1.518 libsocketcan 0.0.10-r0

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

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

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**1.519 python-setuptools 20.10.1**

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- `/opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/specifiers.py`
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=================================================================
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`

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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::
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",
    packages = find_packages(),
)
```

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"],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ["docutils>=0.3"],

    package_data = {
```
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, "2.4e1" and "2.4.e1" and "2.4-e1" 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 "2.4rc1", "2.4pre1" and "2.4preview1" 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 prerelease 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 prerelease tags together without a dot or number between them. Version "1.9adev" is the "adev" prerelease of "1.9", not a development prerelease of "1.9a". Use "1.9a.dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a.dev", "1.9a0dev". And even "1.9a.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::

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
```
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 Dependencies' for details and examples of the format of this argument.

``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 `Namespaces 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, `setup.py` 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
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 `PATH` 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:

```
"setup()" arguments, but that's just a normal distutils thing.)

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```
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```

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.

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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 "egg executable" 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::

```python
``
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 `stdist` 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 `''@REV''` 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::

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::

setup(  
    name="Project-A",  
    ...  
    entry_points = {  
        'console_scripts': [  
            'rst2pdf = Project-A.rst2pdf:main',  
        ],  
    }  
)
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::

    setup(
        name="Project-B",
        install_requires = ["Project-A[PDF]"],
        ...
    )

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 = {
        
        '': ['*.txt', '*.rst'],
        '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/
```

Open Source Used In IOS XR Software 7.7.1 6480
mypkg/
   __init__.py
mypi.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/*.dat'],
   }
)
```

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:

...
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

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 ```installRequires``` 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:

```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 project’s `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 some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file.
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::

```
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 HREFs 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
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:

.. code-block:: 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.:

```
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.
``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.::

```
ssetup.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 `.` 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 `-b ""` 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
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::

    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::

    setup.py rotate --match=py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:
``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):

```
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 ```-u``` or ```-f```.

```--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 ```-g``` or ```-f```. 
Save settings to the specified configuration file to use. You can't combine this option with `--g` or `--u`. 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.

```
``--filename=FILENAME, -f FILENAME``
```

.. _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:

``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 ``TestCases`` class or method, or a module
or package containing ``TestCases`` 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 test text runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` 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 ``unittest`` argument to the ``unittest()`` function, e.g.::

    setup()
    # ...
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`` - Upload source and/or egg distributions to PyPI

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

The `upload` command is implemented and documented
<https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

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 ``setupRequires`` 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: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()", "delete_file()", and "write_or_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 "foobr", you would write a function something like this:

.. code-block:: python

    def find_files_for_foobr(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": [
        "foobr = my_foobr_module:find_files_for_foobr"
    ]
}
```

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"

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

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing "setuptools" Code

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

``ez_setup``

--------

XXX

``setuptools.archive_util``

=================================
``setuptools.sandbox``
----------------------

``setuptools.package_index``
----------------------------

Mailing List and Bug Tracker
============================

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/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/six.py
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/pyparsing.py

1.520 gawk 5.0.1

1.520.1 Available under license:

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1.521 gabs 1.1.1

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1.524 cjson 1.7.13

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Also thanks to all the people who reported bugs and suggested new features.

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 * Rob Earhart
 * Rob Siemborski
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1.530 gawk 4.1.1

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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.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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

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

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

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

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14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

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

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

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

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

That's all there is to it!

1.531 vim 7.4.481
1.531.1 Available under license :
*uganda.txt* For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:
   1) This license text must be included unmodified.
   2) The modified Vim must be distributed in one of the following five ways:
      a) If you make changes to Vim yourself, you must clearly describe in
         the distribution how to contact you. When the maintainer asks you
         (in any way) for a copy of the modified Vim you distributed, you
         must make your changes, including source code, available to the
         maintainer without fee. The maintainer reserves the right to
         include your changes in the official version of Vim. What the
         maintainer will do with your changes and under what license they
         will be distributed is negotiable. If there has been no negotiation
         then this license, or a later version, also applies to your changes.
         The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
         changes it will be announced in appropriate places (most likely
         vim.sf.net, www.vim.org and/or comp.editors). When it is completely
         impossible to contact the maintainer, the obligation to send him
         your changes ceases. Once the maintainer has confirmed that he has
         received your changes they will not have to be sent again.
      b) If you have received a modified Vim that was distributed as
         mentioned under a) you are allowed to further distribute it
         unmodified, as mentioned at I). If you make additional changes the
         text under a) applies to those changes.
c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":.version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===
Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.
Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.
If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.
Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
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
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:et:ft=help:norl:
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.]

Preamble

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

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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1.551 zlib 1.2.7
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1.553 libusb 1.0.19

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1.554 xinetd 2.3.15-r2

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1.555 backoff 2.2.1+incompatible
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1.556 xi2-xz 0.0.0-20171230120015-48954b6210f8

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

This Go package is a modified version of

XZ Embedded <http://tukaani.org/xz/embedded.html>

The contents of the testdata directory are modified versions of the test files from

XZ Utils <http://tukaani.org/xz/>

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1.557 ulikunitz-xz 0.5.7

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package main

import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

  -h  prints this message and exits
`.

func crUsage(w io.Writer) {


fmt.Fprintf(w, crUsageString)
}

const copyrightText = `Copyright 2014-2020 Ulrich Kunitz. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.
`.

gocopyright := goComment(copyrightText)

addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return
    }
    defer func() {
        derr := dst.Close()
        if derr != nil && err == nil {
            err = derr
        }
    }()
    if _, err = bufio.NewReader(dst).ReadAll(gocopyright); err != nil {
        return
    }
}
return err
}
def err() {
cerr := dst.Close()
if cerr != nil && err == nil {
    err = cerr
}
}()
out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
            continue
        }
        fmt.Fprintf(out, txt)
    }
    if err = scanner.Err(); err != nil {
        return err
    }
    if err = out.Flush(); err != nil {
        return
    }
    err = os.Rename(newPath, path)
    return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    //...
}
return addCopyright(path)
}
func copyright() {
cmdName := os.Args[0]
log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
log.SetFlags(0)
flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
help := flag.Bool("h", false, "")
flag.Parse()
if *help {
crUsage(os.Stdout)
os.Exit(0)
}
for _, path := range flag.Args() {
fi, err := os.Stat(path)
if err != nil {
log.Print(err)
continue
}
if !fi.IsDir() {
log.Printf("%s is not a directory", path)
continue
}
if err = filepath.Walk(path, walkCopyrights); err != nil {
log.Fatalf("%s error %s", path, err)
}
}
}
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`
1.558 google-test 1.11.0

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1.559 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe

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1.564 markupsafe 1.1.1

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/**
 * markupsafe_.speedups
 * ~~~~~~~~~~~~~~~~~~~~
 * 
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 */
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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/g/z/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_compat.py

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1.565 consul 1.9.4

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```html
...attributes
class="consul-intention-permission-form"
>
<FormGroup
 @name={[name]}
as [group]>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid)
    changeset=changeset
  )}}}

<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
  </div>
  <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
    {{#each intents as |intent|}}
      <label>
        <span>{{capitalize intent}}</span>
        <input
          type="radio"
          name="Action"
          value={{intent}}
          checked={{if (eq changeset.Action intent) 'checked'}}
          onchange={{action (changeset-set changeset 'Action') value="target.value"}}
        />
      </label>
    {{/each}}
  </div>
</fieldset>
```
<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
    <group.Element
      @name="PathType"
      @type="select"
      as |el|>
      <el.Label>
        Path type
      </el.Label>
      <PowerSelect
        @options={{pathTypes}}
        @selected={{pathType}}
        @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
        {{get pathLabels Type}}
      </PowerSelect>
    </group.Element>
    {{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
        as |el|>
        {{get pathLabels pathType}}
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}} />
        <State @state={{el.state}} @matches="error">
          <el.Error
            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
    {{/if}}
  </div>
</fieldset>
<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
<span>All methods are applied by default unless specified</span>
<group.Element
    @name="allMethods"
as |el|
    <el.Checkbox
        checked={if allMethods 'checked'}
onchange={action 'change' 'allMethods' changeset}
    />
    <el.Label>
        All Methods
    </el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
{{#each methods as |method|}}
<label class="type-checkbox">
<input
type="checkbox"
name="method"
value={{method}}
checked={if (contains method changeset.HTTP.Methods) 'checked'}
onchange={action 'change' 'method' changeset}
/>
<span>{{method}}</span>
</label>
{{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>
</fieldset>
<button data-test-add-header type="button" class="type-submit" disabled={if (not this.headerForm.isDirty) 'disabled'} onclick={action this.headerForm.submit}>Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header</button>
<button type="button" class="type-cancel" onclick={action this.headerForm.reset}>Cancel</button>
</fieldset>
</FormGroup>
</div>

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import { Meta, Story, Canvas } from '@storybook/addon-docs/blocks';
import { hbs } from 'ember-cli-htmlbars';

<Meta title="Components/Notice" component="Notice"/>

# Notice

<Canvas>
  <Story name="Basic"
    argTypes={}
    type: {
      defaultValue: 'success',
      control: {


type: 'select',
options: [ 
'success',
'warning',
'info',
'highlight',
]
}
}
}}> {{(args) => ({
template: hbs`<Notice 
@type={{type}}
as |notice|>
<notice.Header>
<h3>Header</h3>
</notice.Header>
<notice.Body>
<p>
Body
</p>
</notice.Body>
<notice.Footer>
<p>
Footer
</p>
</notice.Footer>
</Notice>`,
context: args
})})
</Story>
</Canvas>

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package api

import (  "io/ioutil"  "strings"  "time"
)

type License struct {  // The unique identifier of the license  LicenseID string `json:"license_id"`

  // The customer ID associated with the license  CustomerID string `json:"customer_id"`

  // If set, an identifier that should be used to lock the license to a  // particular site, cluster, etc.  InstallationID string `json:"installation_id"`
// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    // Use resp...
}
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply

    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)

    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }

    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply

    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)

    r.body = strings.NewReader(license)

    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }

    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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@import './skin';
@import './layout';
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The license command provides datacenter-level management of the Consul Enterprise license. This was added in Consul 1.1.0.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

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

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:
get  Get the current license
put  Puts a new license in the datacenter
reset Resets the license in the datacenter

## put

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:
```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

Resets license for the datacenter to the one built in Consul binary, if it is still valid. If the built in license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
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>>> gogo_protobuf_types-6a92c871a8f5333cf106b2cd937567208d8bb2b7
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>>> golang_int-cb00e5669539f047b2f453a421a0b0c8e172c6
>>> google_go-github_github-7a51fb928f52a1966df31deafbb8a489453e54ff
>>> google_go-querystring_query-53e6ee11613580d037921af7dd5138cf32d7a8a
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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https://code.google.com/p/golang-glog

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>>> golang_groupcache_lru-72d04f9fcddec7d3821820cc4a6f150eae553639a

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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> oxtoacart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6

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>>> syncutil_singleflight-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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Gocheck - A rich testing framework for Go

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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protobuf-6a92c871a8f5f333cf106b2cddf937567208dbb2b7/plugin/compare/compare.go

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>>> graylog2_go-gelf_gelf-master

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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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
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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
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/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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rijndael-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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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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-- vile: txtmode file-encoding=utf-8

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THE BASIC LIBRARY FUNCTIONS
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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National Science Foundation under grant MIP-9311980. The original version
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This code offers a very basic support for this EISA bus present in
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linux-esx-4.9.154-1.ph2.src.rpm\linux-esx-4.9.154-1.ph2.cpio\linux-4.9.154.tar.xz\linux-4.9.154.tar\include\dt-bindings\clock\sun4i-a10-pll2.h

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mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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rpm-4.13.0.2-release\misc\fnmatch.h

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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2.32\libmount\python\pylibmount.c

Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

/ 

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number generator. For usage conditions, see lib_rand.c

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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

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

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The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

-------------- SECTION 4: GNU Library General Public License, V2.0 ------------

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. 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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0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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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
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necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

-------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

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the version number 2.1.]

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specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

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

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

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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

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

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0. 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".

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and what the program that uses the Library does.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
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with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
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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
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subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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distribute the source code, even though third parties are not
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linked with it, is called a "work that uses the Library". Such a
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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.)

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Version 3, 29 June 2007

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--------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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<FormGroup @name={{name}} as |group|>
  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)
    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}
</FormGroup>
```

```html
<group.Element @name="HeaderType" @type="select" as |el|>
  <el.Label>Header type</el.Label>
  <PowerSelect @options={{headerTypes}} @selected={{headerType}} @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
    {{get headerLabels Type}}
  </PowerSelect>
</group.Element>
```
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%notice {
  border-radius: $decor-radius-100;
  border: $decor-border-100;
  color: $black;
}

%notice::before {
  @extend %as-pseudo;
}

%notice header > * {
  @extend %h3;
  font-size: $typo-header-300;
}

%notice footer * {
  @extend %p3;
  font-weight: $typo-weight-bold;
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
%notice-success {
    background-color: $green-050;
    border-color: $green-500;
}

%notice-info {
    border-color: $blue-100;
    background-color: $gray-010;
}

%notice-info header * {
    color: $blue-700;
}

%notice-highlight {
    background-color: $gray-050;
    border-color: $gray-300;
}

%notice-info header * {
    color: $gray-700;
}

%notice-warning {
    border-color: $yellow-100;
    background-color: $yellow-050;
}

%notice-warning header * {
    color: $yellow-800;
}

%notice-error {
    background-color: $red-050;
    border-color: $red-500;
}

%notice-success::before {
    @extend %with-check-circle-fill-color-mask;
    color: $green-500;
}

%notice-info::before {
    @extend %with-info-circle-fill-color-mask;
    color: $blue-500;
}

%notice-highlight::before {
    @extend %with-star-fill-mask;
    color: $yellow-500;
}

%notice-warning::before {
    @extend %with-alert-triangle-color-mask;
    color: $orange-500;
}

%notice-error::before {
    @extend %with-cancel-square-fill-color-mask;
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.
<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
```json
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability"
      ]
   }
}
```
## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl \n   --request PUT \n   --data @consul.license \n   http://127.0.0.1:8500/v1/operator/license
```
## Resetting the Consul License

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>
### Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{  
  "Valid": true,  
  "License": {  
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",  
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",  
    "installation_id": "*",  
    "issue_time": "2018-05-21T20:03:35.911567355Z",  
    "start_time": "2018-05-21T04:00:00Z",  
    "expiration_time": "2019-05-22T03:59:59.999Z",  
    "product": "consul",  
    "flags": {  
      "package": "premium"  
    },  
    "features": [  
      "Automated Backups",  
      "Automated Upgrades",  
      "Enhanced Read Scalability",  
      "Network Segments",  
      "Redundancy Zone",  
      "Advanced Network Federation"  
    ],  
    "temporary": false  
  },  
  "Warnings": []  
}
```

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@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
}

/* */

.notice.success {
  @extend %notice-success;
}

.notice.warning {
  @extend %notice-warning;
}

.notice.error {
  @extend %notice-error;
}

.notice.info {
  @extend %notice-info;
}

.notice.highlight {
  @extend %notice-highlight;
}

.notice.policy-management {
  @extend %notice-highlight;
}

.notice.crds::before {
  -webkit-mask-image: none;
  mask-image: none;
  background-color: transparent;
  @extend %with-logo-kubernetes-color-icon;
}

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@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}

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```html
<ListCollection
  class="consul-intention-permission-header-list"
  @items={{items}}
  @scroll="native"
  @cellHeight={{42}}
  as |item|>
  <BlockSlot @name="details">
    <dl>
      <dt>
        <Tooltip>
          Header
        </Tooltip>
      </dt>
      <dd>
        {{item.Name}} {{route-match item}}
      </dd>
    </dl>
  </BlockSlot>
  <BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
      <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
```
<BlockSlot @name="label">
Delete
</BlockSlot>

<BlockSlot @name="confirmation" as |Confirmation|>
<Confirmation class="warning">
<BlockSlot @name="header">
Confirm delete
</BlockSlot>
<BlockSlot @name="body">
<p>
Are you sure you want to delete this header?
</p>
</BlockSlot>
<BlockSlot @name="confirm" as |Confirm|>
<Confirm>Delete</Confirm>
</BlockSlot>
</Confirmation>
</BlockSlot>
</Action>
</Actions>
</BlockSlot>
</ListCollection>

/*.consul-intention-permission-list {
    dt::before {
        @extend %with-glyph-icon;
    }
    dl.permission-methods dt::before {
        content: 'M';
    }
    dl.permission-path dt::before {
        content: 'P';
    }
    dl.permission-header dt::before {
        content: 'H';
    }
}

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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}
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https://github.com/google/go-github/ and
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1.577 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
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ASN.1 library for Python
------------------------
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).
Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id      INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```
Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )

>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python `dict`, ‘SET OF’ to `list`):

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.ber.encoder import encode
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

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

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/README.md
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/asn1/compat/dateandtime.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/asn1/compat/native/__main__.py
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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions `<https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protobuf>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.
Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics `<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

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-------

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.. toctree::
   :maxdepth: 2

/license

Getting help
------------

Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.578 ini 1.42.0

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1.582 selinux-init 0.1-r0

1.582.1 Available under license:
No license file was found, but licenses were detected in source scan.

From 7002b4e33b949b474a0ce0b78a7f2e180dbbc9bb Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Tue, 9 Feb 2021 17:31:55 +0800
Subject: [PATCH] policy/modules/system/modutils: allow kmod_t to write keys

Fixes:
kernel: cfg80211: Problem loading in-kernel X.509 certificate (-13)

avc: denied { write } for pid=219 comm="modprobe"
scontext=system_u:system_r:kmod_t tcontext=system_u:system_r:kmod_t
tclass=key permissive=0

Upstream-Status: Inappropriate [embedded specific]
Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
---
policy/modules/system/modutils.te | 2 ++
1 file changed, 2 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index ee249ae04..b8769bc02 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -43,6 +43,8 @@ allow kmod_t self:rawip_socket create_socket_perms;
+allow kmod_t self:key write;
+
+# Read module config and dependency information
list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)
--
2.17.1

Found in path(s):
* /opt/cola/permits/1211787116_1648305082.21/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0063-policy-modules-system-modutils-allow-kmod_t-to-write.patch
No license file was found, but licenses were detected in source scan.

#
# Multi-Category Security translation table for SELinux
#
#
# Objects can be categorized with 0-1023 categories defined by the admin.
# Objects can be in more than one category at a time.
# Categories are stored in the system as c0-c1023. Users can use this
# table to translate the categories into a more meaningful output.
# Examples:
# s0:c0=CompanyConfidential
# s0:c1=PatientRecord
# s0:c2=Unclassified
# s0:c3=TopSecret
# s0:c1,c3=CompanyConfidentialRedHat
# s0=SystemLow
# s0-s0:c0,c1023=SystemLow-SystemHigh
# s0:c0,c1023=SystemHigh

Found in path(s):
* /opt/cola/permits/1211787116_1648305082.21/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-
meta-selinux
============

This layer's purpose is enabling SE Linux support.

The majority of this layer's work is accomplished in bbappend files, used to enable SE Linux support in existing recipes.

A new recipes-security was added. The purpose of this category is to add software specific to system security.

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Dependencies
------------

This layer depends on the openembedded-core metadata and the meta-python and meta-oe layers from the meta-openembedded repository.

Maintenance
------------

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Building the meta-selinux layer
--------------------------------

In order to add selinux support to the poky build this layer should be added to your projects bblayers.conf file.

By default the selinux components are disabled. This conforms to the Yocto Project compatible guideline that indicate that simply including a layer should not change the system behavior.

In order to use the components in this layer you must add the 'selinux' to the DISTRO_FEATURES. In addition to selinux, you should be sure that acl, xattr and pam are also present.

e.g. DISTRO_FEATURES_append = " acl xattr pam selinux"

You must also specify a preferred provider for the virtual/refpolicy. The included policies with this layer are simply reference policies and will need to be tailored for your environment.
* Enable the refpolicy-mls:
e.g. PREFERRED_PROVIDER_virtual/refpolicy ?= "refpolicy-mls"

Using different versions of refpolicy
-------------------------------------
To prepare selinux enabled images using different ver. of refpolicy,
we can choose supported releases of refpolicy
refer to available versions under recipes-security/refpolicy

We can use the refpolicy directly from git repository instead of release tarballs.
By default refpolicy from git builds head commit of master branch, we can update
SRCREV for refpolicy and refpolicy-contrib as appropriate at refpolicy.git.inc
to check refpolicy as per required commits.

* enable the preferred refpolicy-minimum:
PREFERRED_VERSION_refpolicy-minimum = "2.20151208"
PREFERRED_VERSION_refpolicy = "2.20151208"

Using different init manager
-----------------------------
By default selinux enabled images coming up with "sysvinit" as init manager,
we can use "systemd" as an init manager using below changes to local.conf

* enable systemd as init manager changes to local.conf
DISTRO_FEATURES_remove = " sysvinit"
DISTRO_FEATURES_append = " systemd"
VIRTUAL-RUNTIME_init_manager = "systemd"
DISTRO_FEATURES_BACKFILL_CONSIDERED = ""

Starting up the system
-----------------------
Most likely the reference policy selected will not just work "out of the box".

As always, if you update the reference policy to better work with OpenEmbedded
or Poky configurations, please submit the changes back to the project.

When using 'core-image-selinux', the system will boot and automatically setup
the policy by running the "fixfiles -f -F relabel" for you. This is
implemented via the 'selinux-autorelabel' recipe.

The 'core-image-selinux-minimal' does not automatically relabel the system.
So you must boot using the parameters "selinux=1 enforcing=0", and then
manually perform the setup. Running 'fixfiles -f -F relabel' is available
in this configuration.
After logging in you can verify selinux is present using:

$ sestatus

Output should include:
SELinux status: enabled
Current mode: enforcing

The above indicates that selinux is currently running, and if you are running in an enforcing mode or not.

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Found in path(s):
* /opt/cola/permits/1211787116_1648305082.21/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targ-gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/README
No license file was found, but licenses were detected in source scan.

From 1126ee6883d7e107b103a18d255416d542ca50f2 Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Mon, 24 Aug 2020 11:29:09 +0800
Subject: [PATCH] policy/modules/system/modutils: allow mod_t to access confidentiality of class lockdown

The SELinux lockdown implementation was introduced since kernel 5.6 by commit 59438b46471ae6cdfb761af8c8e9beaf1e428a331. We need to allow mod_t and udev_t to access confidentiality of class lockdown to mount tracefs.

Fixes:
kernel: Could not create tracefs 'iwlfwifi_data/filter' entry
kernel: Could not create tracefs 'enable' entry
kernel: Could not create tracefs 'id' entry
kernel: Could not create tracefs 'filter' entry
kernel: Could not create tracefs 'trigger' entry
kernel: Could not create tracefs 'format' entry

audit[170]: AVC avc: denied { confidentiality } for pid=170
comm="modprobe" lockdown_reason="use of tracefs"
scontext=system_u:system_r:kmod_t:s15:c0.c1023
tcontext=system_u:system_r:kmod_t:s15:c0.c1023 tclass=lockdown
permissive=0

audit[190]: AVC avc: denied { confidentiality } for pid=190
comm="systemd-udevd" lockdown_reason="use of tracefs"
scontext=system_u:system_r:udev_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udev_t:s0-s15:c0.c1023 tclass=lockdown
permissive=0

Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>

---

policy/modules/system/modutils.te | 2 ++
policy/modules/system/udev.te     | 2 ++
2 files changed, 4 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index ef5de835e..ee249ae04 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -41,6 +41,8 @@ dontaudit kmod_t self:capability sys_admin;
 allow kmod_t self:udp_socket create_socket_perms;

+allow kmod_t self:lockdown confidentiality;
+
# Read module config and dependency information
list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)
diff --git a/policy/modules/system/udev.te b/policy/modules/system/udev.te
index 4a2283b6c..daa64482f 100644
--- a/policy/modules/system/udev.te
+++ b/policy/modules/system/udev.te
@@ -61,6 +61,8 @@ allow udev_t self:rawip_socket create_socket_perms;
 allow udev_t self:netlink_route_socket nlmsg_write;

+allow udev_t self:lockdown confidentiality;
+
# for systemd-udevd to rename interfaces
allow udev_t self:netlink_route_socket nlmsg_write;

+allow udev_t self:lockdown confidentiality;
+
 can_exec(udev_t, udev_exec_t)

allow udev_t udev_helper_exec_t:dir list_dir_perms;
--
2.17.1

Found in path(s):
1.583 tcpdump 4.6.1
1.583.1 Available under license:
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1.584 ncurses 6.2-r0
1.584.1 Available under license:
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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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1.589 tdb 1.45.4

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/*
Unix SMB/CIFS implementation.

trivial database library

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# encoding: utf-8
# Scott Newton, 2005 (scottn)
# Thomas Nagy, 2006-2018 (ita)
#!/usr/bin/env python3
# Some simple tests for the Python bindings for TDB
# Note that this tests the interface of the Python bindings
# It does not test tdb itself.
#
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1.590 pierrec-lz4 2.5.2+incompatible

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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, 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>PSF</td>
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<td>2001-now</td>
<td>PSF</td>
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</tr>
</tbody>
</table>

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1.618 tcl 8.6.6

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

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.649 sysstat 10.2.1

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1.650 elfutils 0.170

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1.651 go.mongodb.org-mongo-driver 1.4.6

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1.660 sysfsutils 2.1.0
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1.662 bluez 4.101

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metrics from the pseudo-filesystem proc.

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1.665 czmq 4.2.0-r0

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1.668 streadway-amqp 1.0.0

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# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
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# but not in AUTHORS, because Google holds the copyright.
# Names should be added to this file only after verifying that
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# the appropriate Contributor License Agreement, found here:
# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
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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.

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* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

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

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* Detect whether zlib is new enough in configure script.
* 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 minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)
1.687 slang 2.3.2-r0

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.693 pcre 8.44-r0
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THE BASIC LIBRARY FUNCTIONS

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1.694 chardet 3.0.4

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NAME
Logfile::Rotate - Perl module to rotate logfiles.

SYNOPSIS
use Logfile::Rotate;
my $log = new Logfile::Rotate( File   => '/var/adm/syslog/syslog.log',
   Count => 7,
   Gzip  => 'lib',
   Post  => sub{
      open(IN, "'/var/run/syslog.pid'";
      kill("HUP", chomp(<IN>)); }
   Dir    => '/var/log/old',
   Flock  => 'yes',
   Persist => 'yes',
 );

# process log file
$log->rotate();

or

my $log = new Logfile::Rotate( File  => '/var/adm/syslog',
   Gzip   => '/usr/local/bin/gzip';

# process log file
$log->rotate();
undef $log;

DESCRIPTION
I have used the name space of the Logfile::Base manpage package by
*Ulrich Pfeifer*, as the use of this module closely relates to the
processing logfiles.

new `new' accepts the following arguments, `File', `Count', `Gzip',
`Pre', `Post', `Flock' and `Dir' with only `File' being mandatory.
`new' will open and lock the file, so you may co-ordinate the
processing of the file with rotating it. The file is closed and
unlocked when the object is destroyed, so you can do this explicitly
by `undef'ing the object.

The `Pre'/ `Post' arguments allow you to pass function references to
this method, which you may use as a callback for any processing you
want before or after the rotation. For example, you may notify the
process writing to the file that it has been rotated.

The `Pre' function is passed the current filename to be rotated as an argument and the `Post' function is passed the current filename that was rotated and that file's new filename including any extension added by compression previously.

Both the `Pre' and `Post' function references you provide are executed within an `eval' statement inside the `rotate' method. If the `eval' returns an error then the `rotate' method will croak at that point.

The `Signal' argument is deprecated by the `Post' argument.

The `Flock' argument allows you to specify whether the perl function `flock' is used to lock the file during the rotation operation. Apparently flock causes problems on some platforms and this option has been added to allow you to control the programs behaviour. By default the file will be locked using `flock'.

The `Persist' argument allows you to control whether the program will try and set the current log file ownership and permissions on any new files that may be created by the rotation. In some circumstances the program doing the file rotation may not have sufficient permission to `chown' on the file. By default the program will try and preserve ownership and permissions.

rotate()

This method will copy the file passed in `new' to a file of the same name, with a numeric extension and truncate the original file to zero length. The numeric extension will range from 1 up to the value specified by Count, or 7 if none is defined, with 1 being the most recent file. When Count is reached, the older file is discarded in a FIFO (first in, first out) fashion. If the argument `Dir' was given, all old files will be placed in the specified directory.

The `Post' function is the last step executed by the rotate method so the return code of rotate will be the return code of the function you proved, or 1 by default.

The copy function is implemented by using the the File::Copy manpage package, but I have had a few people suggest that they would prefer the File::Move manpage. I'm still not decided on this as you would loose data if the move should fail.

Optional Compression

If available `rotate' will also compress the file with the gzip
manpage program or the program passed as the 'Gzip' argument.

You may now also use `lib` as a value for the `Gzip` argument. This directs the program to load the `Compress::Zlib` module, if available and use it do the compression within perl. This avoids the security issues associated with spawning external programs and is the recommended value for this option.

If no argument is defined it will first check to see if the `Compress::Zlib` module can be loaded then check the perl the Config manpage to determine if gzip is available on your system. In this case the the gzip manpage must be in your current path to succeed, and accept the `-f` option.

See the the section on "WARNING" section below.

Optional Relocation Directory

If you specify an argument for `Dir` then the file being rotated will be relocated to the directory specified. Along with any other files that may have been rotated previously. If the directory name specified does not exist then it will be created with `0750` permissions. If you wish to have other permissions on the directory then I would recommend you create the directory before using this module.

See the the section on "WARNING" section below.

WARNING

If a system call is made to gzip this makes this module vulnerable to security problems if a rogue gzip is in your path or gzip has been sabotaged. For this reason a STRONGLY RECOMMEND you DO NOT use this module while you are ROOT.

For a more secure alternative install the `Compress::Zlib` module and use the lib value for the `Gzip` argument.

If you specify an argument for `Dir` and the directory name you pass does not exist, this module will create the directory with permissions `0750`.

DEPENDANCIES
See the File::Copy manpage.

If `Gzip` is being used it must create files with an extension of `.gz` for the file to be picked by the rotate cycle.

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SEE ALSO
the File::Copy manpage, the Logfile::Base manpage, the flock manpage
Changes file for change history and credits for contributions.

RETURN
All functions return 1 on success, 0 on failure.

AUTHOR
Paul Gampe <paulg@apnic.net>

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=head1 NAME
Logfile::Rotate - Perl module to rotate logfiles.

=head1 SYNOPSIS
use Logfile::Rotate;
my $log = new Logfile::Rotate( File => '/var/adm/syslog/syslog.log',
    Count => 7,
    Gzip => 'lib',
    Post => sub{
        open(IN, '/var/run/syslog.pid');
        kill("HUP", chomp(<IN>));
    },
    Dir => '/var/log/old',
    Flock => 'yes',
Persist => 'yes',
);

# process log file
$log->rotate();

or

my $log = new Logfile::Rotate( File => '/var/adm/syslog',
   Gzip => '/usr/local/bin/gzip');

# process log file
$log->rotate();
undef $log;

=head1 DESCRIPTION

I have used the name space of L<Logfile::Base> package by I<Ulrich Pfeifer>,
as the use of this module closely relates to the processing logfiles.

=over 4

=item new

C<new> accepts the following arguments, C<File>, C<Count>, C<Gzip>,
C<Pre>, C<Post>, C<Flock> and C<Dir> with only C<File> being mandatory.
C<new> will open and lock the file, so you may co-ordinate the
processing of the file with rotating it. The file is closed and
unlocked when the object is destroyed, so you can do this explicitly by
C<undef> 'ing the object.

The C<Pre>/C<Post> arguments allow you to pass function references to
this method, which you may use as a callback for any processing you want
before or after the rotation. For example, you may notify the process
writing to the file that it has been rotated.

The C<Pre> function is passed the current filename to be rotated as an
argument and the C<Post> function is passed the current filename that
was rotated and that file's new filename including any extension added
by compression previously.

Both the C<Pre> and C<Post> function references you provide are executed
within an C<eval> statement inside the C<rotate> method. If the C<eval>
returns an error then the C<rotate> method will croak at that point.

The C<Signal> argument is deprecated by the C<Post> argument.
The C<Flock> argument allows you to specify whether the perl function C<flock> is used to lock the file during the rotation operation. Apparently flock causes problems on some platforms and this option has been added to allow you to control the programs behaviour. By default the file will be locked using C<flock>.

The C<Persist> argument allows you to control whether the program will try and set the current log file ownership and permissions on any new files that may be created by the rotation. In some circumstances the program doing the file rotation may not have sufficient permission to C<chown> on the file. By default the program will try and preserve ownership and permissions.

=item rotate()

This method will copy the file passed in C<new> to a file of the same name, with a numeric extension and truncate the original file to zero length. The numeric extension will range from 1 up to the value specified by Count, or 7 if none is defined, with 1 being the most recent file. When Count is reached, the older file is discarded in a FIFO (first in, first out) fashion. If the argument C<Dir> was given, all old files will be placed in the specified directory.

The C<Post> function is the last step executed by the rotate method so the return code of rotate will be the return code of the function you proved, or 1 by default.

The copy function is implemented by using the L<File::Copy> package, but I have had a few people suggest that they would prefer L<File::Move>. I'm still not decided on this as you would loose data if the move should fail.

=back

=head2 Optional Compression

If available C<rotate> will also compress the file with the L<gzip> program or the program passed as the C<Gzip> argument.

You may now also use C<lib> as a value for the C<Gzip> argument. This directs the program to load the C<Compress::Zlib> module, if available and use it do the compression within perl. B<This avoids the security issues associated with spawning external programs and is the recommended value for this option.>

If no argument is defined it will first check to see if the C<Compress::Zlib> module can be loaded then check the perl L<Config> to
determine if gzip is available on your system. In this case the $gzip$ must be in your current path to succeed, and accept the $-f$ option.

See the L"<WARNING"> section below.

=head2 Optional Relocation Directory

If you specify an argument for $Dir$ then the file being rotated will be relocated to the directory specified. Along with any other files that may have been rotated previously. If the directory name specified does not exist then it will be created with $0750$ permissions. If you wish to have other permissions on the directory then I would recommend you create the directory before using this module.

See the L"<WARNING"> section below.

=head1 WARNING

If a system call is made to $gzip$ this makes this module vulnerable to security problems if a rogue gzip is in your path or $gzip$ has been sabotaged. For this reason a STRONGLY RECOMMEND you DO NOT use this module while you are ROOT.

For a more secure alternative install the $Compress::Zlib$ module and use the $lib$ value for the $Gzip$ argument.

If you specify an argument for $Dir$ and the directory name you pass does not exist, this module B<will create> the directory with permissions $0750$.

=head1 DEPENDANCIES

See L<File::Copy>.

If $Gzip$ is being used it must create files with an extension of $gz$ for the file to be picked by the rotate cycle.

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=head1 SEE ALSO

L<File::Copy>, L<Logfile::Base>, L<flock>
F<Changes> file for change history and credits for contributions.

=head1 RETURN

All functions return 1 on success, 0 on failure.

=head1 AUTHOR

Paul Gampe <paulg@apnic.net>

=cut

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1.697 glibc 2.24

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

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1.705 zeromq 4.2.5

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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 *   Part No: 816-1331-11
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Network Working Group    H. Krawczyk
HMAC: Keyed-Hashing for Message Authentication

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

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3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B. Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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1.728 golang-snappy 0.0.1

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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

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1.739 curl 7.37.1

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*:MaxApplZone();
*:MoreMasters();

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*

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_wrt.c
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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_doswin.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setopt.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setopt.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_msgs.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_msgs.c
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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc8
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc6
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Found in path(s):
  * /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_urlglob.h
  * /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_xattr.c
  * /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_sleep.h
No license file was found, but licenses were detected in source scan.

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1.740 logrus 1.7.0

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1.741 golang-snappy 0.0.2

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1.742 libx11 1.6.2
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**1.744 xz 5.1.3alpha**

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==================
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1.749 go 1.5

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1.750 glibc-locale 2.31-r0

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b) Use a suitable shared library mechanism for linking with the
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**1.776 findutils 4.7.0**

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

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

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

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Thus, it is not the intent of this section to claim rights or contest
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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.

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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could make it effectively proprietary. To prevent this, the GPL
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The precise terms and conditions for copying, distribution and
modification follow.

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@enumerate 0
@item Definitions.

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To ``modify'' a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
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A ``covered work'' means either the unmodified Program or a work based
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To ``propagate'' a work means to do anything with it that, without
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To ``convey'' a work means any kind of propagation that enables other
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An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

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

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

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

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

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@end enumerate

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

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

@item
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@end enumerate

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

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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@var{one line to give the program's name and a brief idea of what it does.}

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@end example

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DRuntime: Runtime Library for the D Programming Language

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1.778 python-six 1.14.0-r0
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1.781 libcap 2.32-r0

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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  * Added generation of field number constants.
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Will Pierce <willp@nuclei.com>
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Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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  * 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.

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* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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

Andrew Paprocki <andrew@ishiboo.com>

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

1.792 python-pip 9.0.1

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Gocheck - A rich testing framework for Go

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*** Settings ***
Documentation  Test 19-4 - DRS-Disabled-License-Features
Resource  ../../resources/Util.robot
Suite Teardown  Cleanup VIC Appliance On Test Server

*** Test Cases ***
vic-machine create checks DRS setting and RP options
  Set Environment Variable  TEST_TIMEOUT  30m

  ${output}=  Install VIC Appliance To Test Server  additional-args=--memory 8000 --memory-reservation 512 --
  memory-shares 6000 --cpu 10000 --cpu-reservation 512 --cpu-shares high
  Should Contain  ${output}  DRS is recommended, but is disabled
  Should Contain  ${output}  Memory Limit
  Should Contain  ${output}  Memory Reservation
  Should Contain  ${output}  Memory Shares
  Should Contain  ${output}  CPU Limit
  Should Contain  ${output}  CPU Reservation
  Should Contain  ${output}  CPU Shares
/
*/

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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:\tEdition:\tUsed:\tTotal:\n")  
for _, v := range res {  
fmt.Fprintf(tw, "%s\t", v.LicenseKey)  
fmt.Fprintf(tw, "%s\t", v.EditionKey)  
fmt.Fprintf(tw, "%d\t", v.Used)  
fmt.Fprintf(tw, "%d\t", v.Total)  
fmt.Fprintf(tw, "\n")  
}  
return tw.Flush()  
}

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

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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 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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    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/soap"  
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",  
    EditionKey: "eval",  
    Name: "Evaluation Mode",  
    Properties: []types.KeyAnyValue{

        {  
            Key: "feature",  
            Value: types.KeyValue{  
                Key: "serialuri:2",  
                Value: "Remote virtual Serial Port Concentrator",  
            },  
        },
    }
}

http://www.apache.org/licenses/LICENSE-2.0
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {

body := &methods.RemoveLicenseBody{
    Res: &types.RemoveLicenseResponse{
    }
}

for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}
return body


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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tomb - support for clean goroutine termination in Go.

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package license

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    "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(),
        EntityId: id,
    }
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

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
}
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package license

import (}
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 {
    var 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

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: mapToKeySlice(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
    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 {
        // Continue here to check if the feature is present and any other necessary checks
    }
}
if p.Key != "feature" {
    continue
}

kv, ok := p.Value.(types.KeyValue)
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
}

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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)   
}

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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
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
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>>> yaml_v2-4e78ce7975fe7c825c6d1466e42be594d1d6f3ab6

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>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9e2805d983b57e893999b5
>>> api_gensupport-dfa61ae24628a06502b9e2805d983b57e893999b5
>>> api_googleapi-dfa61ae24628a06502b9e2805d983b57e893999b5
>>> armon_go-metrics-f303b03b911d770a11a39677f1d3b55a4002bbcb
>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ec8ddbf0f2
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>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> linux-esx-4.9.137-1.ph2
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>>> hawkey-2017.1-6.ph2
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google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5/examples/pubs1ub.go

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dd6f0f2

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure_go-ansiterm-70b2e90b260171e829f1ebd7c17f600c11858dbe

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>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59ae9

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbee049a8262a6403d30504

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dafa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522993ce71c35890ff7554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffbb9cbbbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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>>> go-martini/martini-22fa46961aab4ab2d665c1f3f1343b146d20028f5071

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```bash
>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2c9df937567208dbb2b7
```

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> microsoft_go-winio-24a3e3d3fc7451805e09d11e11e95d9a0a4f205e

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>>> mreiferson_go-httpclient-f31f0106b447l4bc441575c19d3a5fa21a1f6c

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>>> racksec_srslog-a974ba6f7fb527d2d9c73ee9c05d3e2ccc0af0dc

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>>> smartystreets_assertions_internal_reqtrace-287b4346dc4e71a038c346375a9d572453bc469b

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94
objx - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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graceful-1.2.15.zip/graceful-1.2.15/limit_listen.go

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b

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```bash
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
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>>> krb5-1.16-2.ph2

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lib/gssapi/mechglue/g_canon_name.c
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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
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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
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
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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>
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```bash
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```

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

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

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>>> openssh-7.5p1-10.ph2

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- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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- Blowfish is now external, in the OpenSSL library

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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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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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iptables-1.6.1.tar.bz2/iptables-1.6.1.tar/iptables-1.6.1/utils/pf.os

SYN signatures. Those signatures work for SYN packets only (duh!).

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his C header file is part of the SoftFloat IEC/IEEE Floating-point
Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the
International Computer Science Institute, located at Suite 600, 1947 Center
Street, Berkeley, California 94704. Funding was partially provided by the
National Science Foundation under grant MIP-9311980. The original version
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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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4.9.137/include/dt-bindings/clock/sun4i-a10-pll2.h

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procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\mkinstalldirs

mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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```bash
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uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A normal user program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to edit the password file. For use by chfn,
chsh and passwd, _I HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk
Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.
The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

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 the public, 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 state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
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Also add information on how to contact you by electronic and paper mail.

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

<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".
You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

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The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

--------------- SECTION 4: GNU Library General Public License, V2.0 ------------

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Version 2, June 1991

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

Preamble

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

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. 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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

-------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

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Version 2.1, February 1999

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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.

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.

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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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straightforwardly into another language. (Hereinafter, translation is
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interface definition files, plus the scripts used to control compilation
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running a program using the Library is not restricted, and output from
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you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
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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.

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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[VIC15GAMS010319]
Gocheck - A rich testing framework for Go

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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)
}

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

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Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

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

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Test 19-4 - DRS Disabled License Features
=======

# Purpose:
To verify that vic-machine create checks for the DRS setting and command flags specific to resource pools in a vSphere environment without DRS, such as a ROBO deployment. If a VCH is being installed in a DRS-disabled environment, vic-machine create should warn that DRS is disabled and mention that any resource pool options supplied in the command will be ignored as they are not applicable in this environment.

# References:
2. [Provide License and Feature Check](https://github.com/vmware/vic/issues/7277)
3. [vic-machine to provide license and feature check](https://github.com/vmware/vic/issues/7275)
# Environment:
This test requires access to VMware Nimbus cluster for dynamic ESXi and vCenter creation. This test should be executed in a vCenter environment with a cluster that has DRS turned off.

See https://confluence.eng.vmware.com/display/CNA/VIC+ROBO for more details.

# Test Steps:
1. Deploy a vCenter testbed with DRS disabled
2. Using vic-machine create, install a VCH with compute resource set to the cluster where DRS is off. Also supply options that are specific to resource pools: cpu, cpu-shares, cpu-reservation, memory, memory-shares and memory-reservation.
3. Delete the VCH

# Expected Outcome:
* All test steps should complete without error
* Step 2's output should contain a message stating that DRS is disabled and that the provided resource pool options will be ignored.

# Possible Problems:
None

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package gobrake
import ( "fmt"


"net/http"
)

type Error struct {
  Type      string       `json:"type"`
  Message   string       `json:"message"`
  Backtrace []StackFrame `json:"backtrace"
}

type Notice struct {
  Errors  []Error                `json:"errors"`
  Context map[string]interface{} `json:"context"
  Env     map[string]interface{} `json:"environment"
  Session map[string]interface{} `json:"session"
  Params  map[string]interface{} `json:"params"
}

func NewNotice(e interface{}, req *http.Request, depth int) *Notice {
  stack := stack(depth)
  notice := &Notice{
    Errors: []Error{
      {
        Type:      fmt.Sprintf("%T", e),
        Message:   fmt.Sprint(e),
        Backtrace: stack,
      },
    },
    Context: map[string]interface{}{
      "notifier": map[string]interface{}{
        "name":    "gobrake",
        "version": "2.0.3",
        "url":     "https://github.com/airbrake/gobrake",
      },
    },
    Env:     map[string]interface{}{},
    Session: map[string]interface{}{},
    Params:  map[string]interface{}{},
  }
  if req != nil {
    notice.Context["url"] = req.URL.String()
    if ua := req.Header.Get("User-Agent"); ua != "" {
      notice.Context["userAgent"] = ua
    }
  }
  for k, v := range req.Header {
    if len(v) == 1 {
      notice.Env[k] = v[0]
} else {
    notice.Env[k] = v
}
}

if err := req.ParseForm(); err == nil {
    for k, v := range req.Form {
        if len(v) == 1 {
            notice.Params[k] = v[0]
        } else {
            notice.Params[k] = v
        }
    }
}
return notice

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`
    SHA         *string  `json:"sha,omitempty"`
    Size        *int     `json:"size,omitempty"`
    URL         *string  `json:"url,omitempty"`
    HTMLURL     *string  `json:"html_url,omitempty"`
    GitURL      *string  `json:"git_url,omitempty"`
    DownloadURL *string  `json:"download_url,omitempty"`
    Type        *string  `json:"type,omitempty"`
    Content     *string  `json:"content,omitempty"`
    Encoding    *string  `json:"encoding,omitempty"`
    License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}
// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`  
    Name *string `json:"name",omitempty`  
    URL  *string `json:"url",omitempty`  
    SPDXID         *string   `json:"spdx_id",omitempty`  
    HTMLURL        *string   `json:"html_url",omitempty`  
    Featured       *bool     `json:"featured",omitempty`  
    Description    *string   `json:"description",omitempty`  
    Implementation *string   `json:"implementation",omitempty`  
    Permissions    *[]string `json:"permissions",omitempty"  
    Conditions     *[]string `json:"conditions",omitempty"  
    Limitations    *[]string `json:"limitations",omitempty"  
    Body           *string   `json:"body",omitempty"  
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.  
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses  
func (s *LicensesService) List(ctx context.Context) (*[]*License, *Response, error) {  
    req, err := s.client.NewRequest("GET", "licenses", nil)  
    if err != nil {  
        return nil, nil, err  
    }
    // TODO: remove custom Accept header when this API fully launches  
    req.Header.Set("Accept", mediaTypeLicensesPreview)  
    var licenses []*License  
    resp, err := s.client.Do(ctx, req, &licenses)  
    if err != nil {  
        return nil, resp, err  
    }  
    return licenses, resp, nil  
}

// Get extended metadata for one license.  
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license  
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {  
    u := fmt.Sprintf("licenses/%s", licenseName)
req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil

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```plaintext
>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acbb5668c4c4dce4426c5e40989b6fbb1e
>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbffdddbe055a7b9e3ce271cf83eca
>>> docker_libnetwork-fd27f22aaa35e3d57188688f919d05b744f431fd
>>> docker_libtrust-9ebd2a1374f46905c68a4eb3694a130610adc62a
>>> go-openapi_analysis-d5a75bf7d751ca3f11ad5d93ce97405f2c3f6a47
>>> go-openapi_errors-fc3f73aa224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-779f45308c19820f1a69e9a4cd965f496e0da10f
>>> go-openapi_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b
>>> go-openapi_loads-6bb6486231e079ea125c0f39994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
>>> go-openapi_spec-e072eb2390d3a03736a6eb617d30f48369160447
>>> go-openapi_strfmt-0cb3db44c13bad3b35f67b62a66751972a310cc
>>> go-openapi_swag-96d7b9ebd181a1735a1c9ac87914f2b32fbf56e9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
```
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>>> go_compute_metadata-cd0da878c66091060d2e7403abdd62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403abdd62192b3e387e0
>>> golang_glog-23def4e6c14b4da8ac2ed80073377bc5eb5007998
>>> golang_groupcache_lru-72d0419cfdec7d3821820cc4af6f150oa553639a
>>> govnmomi-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e966a3a90a80
>>> oxtocart/bpool-4e1c5567d7c2dd59fa4c7e83d34cf3f528b025d6
>>> syncutil_singleflight-7ce08ca145dbf066a1274c47b808ee7914f3e4f9
>>> vdemeeanda_shakers-24d7f1da71aa5d9f0b7390e4af6b67e9f9e1b3
>>> vishvananda_netlink-482f7a52b7582333251878cb6e5904b6bd6f3f3457
>>> vishvananda_netns-604ea889ee8678d8c147f2f828def23948e787d25
>>> yaml_v2-2c7e975b7c825c6d1466ec42be5f94d16d3f3a6f6

>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc41cbf8de730a09af4878fffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03f91d7701a139677f1d3b55a402fbcb
>>> armon_go-radix-4239b77700c750d4243b7b47363044e3d8d60f0f2
>>> asaskevich_govalidator-9699ab638bee2e02c3f8b999ecf67653590c96
>>> azure_go-ansiterm-70b2c90b0260171e829f1ebd7c17f600c11858d
>>> bolt/bbolt-b514920f8f2e0af88f57e5a12c77f4385a59ae9
>>> cenkalti_backoff-b02f2bcbe117da6eb9728e2f177500f265f3e3
>>> client9_misspell-9a1fc2566e98e9b4cbe9d005bb6e7adac0d357f5
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868df9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29f0231d3ce362502bedf90812584bca
>>> deckarep_golang-set-1f0f4f8d3bfe9f32822993371e35890f67554
>>> dustin_go-humanize-2592a2012871d17f30ec3d9881a642961a14e86
>>> gemnasium_logrus-airbreake-hook_v2-2316f64d4b59a8d8ee767324bc54ec73c31810dd
>>> gizak_termui-798ff9b9ebbe4073ef1f8e6069ca4a2c6aa6676b
>>> go-check_check-20d25e82040501c01d24a7ee1e7a6447d0e74ec
>>> go-martini/martini-22fa46961aaab2665cf3f1343b146d20023f071
>>> go-nfs-client-42fca177a36031d648551c751e1da5f55dd4f1
>>> godbus_dbus-2304eb23b2f8d1c53eaa0737f6659d4849ce51
>>> gogo_protobuf_gogoprotoc-6a92c871aaf5333fc10682dd937567208dbb2b7
>>> gogo_protobuf_proto-6a92c871aaf5333fc10682dd937567208dbb2b7
>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871afa5333fc10682dd937567208dbb2b7
>>> gophr_github_github-7a51fb928f52a196d5f31daefb8aa489453ef54ff
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>>> photon-release-2.0-2.ph2

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>>> bzip2-1.0.6-8.ph2
>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libgsolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> lsif-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.php2
>>> popt-1.16-5.php2
>>> shadow-4.2.1-16.php2
>>> sqlite-3.22.0-3.php2
>>> sudo-1.8.20p2-5.php2
>>> vim-8.0.0533-6.php2
>>> xz-5.2.3-2.php2
>>> zlib-1.2.11-1.php2

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>>> e2fsprogs-1.43.4-2.php2
>>> gcc-6.3.0-7.php2
>>> iproute2-4.10.0-3.php2
>>> iptables-1.6.1-4.php2
>>> linux-esx-4.9.154-1.php2
>>> logrotate-3.11.0-3.php2
>>> mingetty-1.08-2.php2
>>> net-tools-1.60-11.php2
>>> procps-ng-3.3.15-2.php2
>>> rpm-4.13.0-2.1.php2
>>> tdnf-1.2.3-6.php2
>>> util-linux-2.32-1.php2
SECTION 5: GNU General Public License, V3.0

>>> bash-4.4.12-3.ph2
>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> cracklib-2.9.6-8.ph2
>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgencrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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```bash
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
```

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Go support for leveled logs, analogous to https://code.google.com/google-glog

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Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aabd65cf13f1343b146d20028f5071

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto
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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/cmd/present/templates/dir.tmpl

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+build appengine

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It is designed to run only on the instance of godoc that serves golang.org.
package short

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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
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lib/gssapi/mechglue/g_glue.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

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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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This is a plain C recursive-descent translation of an old public-domain YACC grammar that has been used for parsing dates in very many open-source projects.

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Tim Kientzle, February 2009.

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For the verification of the code, its output sequence file
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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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SHA-1 in C
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libtirpc-1.0.1\tirpc\rpc\key_prot.h

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
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>>> pcre-8.41-1.ph2
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Written by: Philip Hazel
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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>>> linux-esx-4.9.154-1.ph2

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Arithmetic Package, Release 2.

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National Science Foundation under grant MIP-9311980. The original version
of this code was written as part of a project to build a fixed-point vector
processor in collaboration with the University of California at Berkeley,
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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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util-linux-2.32-1.ph2.src.rpm\util-linux-2.32-1.ph2.src.cpio\util-linux-2.32.tar.xz\util-linux-2.32.tar\util-linux-2.32\login-utils\setpwnam.c
setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd, _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.

27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
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There are some preprocessor constants that can
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improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
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kmod-24.tar.xz\kmod-24.tar\kmod-24\tools\rmmod.c

kmod-insert - insert a module into the kernel.

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Heavily modified for GnuPG by Werner Koch

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free
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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.

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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.

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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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Version 2.1, February 1999
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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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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.

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least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
the executable.

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-------------- SECTION 6: GNU Lesser General Public License, V3.0 --------------

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Version 3, 29 June 2007

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Version 2.0

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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Version 1, September 1998

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/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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    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{}})
}

func (cmd *add) 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 *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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    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{}})
func (cmd *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 (cmd *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 (cmd *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))
}

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1.802 binutils 2.34-r0

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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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Version 3, 29 June 2007

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1.805 go-syslog 1.0.0

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1.806 util-linux 2.28.1

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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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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

Marcus Metzler <mocm@metzlerbros.de>
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

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
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.

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# PLY (Python Lex-Yacc)       Version 3.11


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

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

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

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

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

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

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

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

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

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

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

```python
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document.

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

http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

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

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

The CHANGES file acknowledges those who have contributed patches.

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

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

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

```python
# calc.py
#
# A simple calculator with variables.
```
tokens = (  
    'NAME', 'NUMBER',  
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',  
    'LPAREN', 'RPAREN',  
)

# Tokens  
  t_PLUS = r'\+'  
  t_MINUS = r'-'  
  t_TIMES = r'\*'  
  t_DIVIDE = r'/'  
  t_EQUALS = r'='  
  t_LPAREN = r'\('  
  t_RPAREN = r'\)'  
  t_NAME = r'\[a-zA-Z_][a-zA-Z0-9_]\*\*  

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

# Ignored characters  
  t_ignore = " \t"  

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

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

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

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

# dictionary of names (for storing variables)  
names = { }
def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

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

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

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

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

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

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

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

import ply.yacc as yacc
yacc.yacc()

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

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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# Contributions to the urllib3 project

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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 <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

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

* 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

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

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

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

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

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

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

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.
* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

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

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

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

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

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

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

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

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

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

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

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

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix `util.selectors._fileobj_to_fd` to accept `long`.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings
* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

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

1.828 liburcu 0.8.4

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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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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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// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
    DataItem []DataItem `json:"DataItem" xml:"DataItem"
}

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package mts

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//limitations under the License.  
//  
// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"  
)

// GetLicense invokes the mts.GetLicense API synchronously  
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {  
    response = CreateGetLicenseResponse()  
    err = client.DoAction(request, response)  
    return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously  
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan error) {  
    responseChan := make(chan *GetLicenseResponse, 1)  
    errChan := make(chan error, 1)  
    err := client.AddAsyncTask(func() {  
        defer close(responseChan)  
        defer close(errChan)  
    })  
    err = client.AddAsyncTask(func() {  
        defer close(responseChan)  
        defer close(errChan)  
    })  
    return
}
response, err := client.GetLicense(request)
if err != nil {
    errChan <- err
} else {
    responseChan <- response
}
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
    *requests.RpcRequest
    ResourceOwnerId string `position:"Query" name:"ResourceOwnerId"`
    Data string `position:"Query" name:"Data"`
    ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
    OwnerAccount string `position:"Query" name:"OwnerAccount"`
    Header string `position:"Query" name:"Header"`
    OwnerId string `position:"Query" name:"OwnerId"`
    MediaId string `position:"Query" name:"MediaId"`
    Type string `position:"Query" name:"Type"`
LicenseUrl: string `position:"Query" name:"LicenseUrl"

// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    License   string `json:"License" xml:"License"
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
    request = &GetLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
    return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
    response = &GetLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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package linkface

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//
//Code generated by Alibaba Cloud SDK Code Generator.
//Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
    response = CreateQueryLicensesResponse()
    err = client.DoAction(request, response)
    return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {
    responseChan := make(chan *QueryLicensesResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.QueryLicenses(request)
        if err != nil {
            close(responseChan)
            close(errChan)
            return
        }
        responseChan <- response
    })
    errChan <- err
    return
}
errChan <- err
} else {
    responseChan <- response
}
})
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// QueryLicensesWithCallback invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response *QueryLicensesResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *QueryLicensesResponse
        var err error
        defer close(result)
        response, err = client.QueryLicenses(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
    *requests.RpcRequest
    LicenseType requests.Integer `position:"Body" name:"LicenseType"`
    PageSize    requests.Integer `position:"Body" name:"PageSize"`
    CurrentPage requests.Integer `position:"Body" name:"CurrentPage"`
}

// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    Code int `json:"Code" xml:"Code"`
// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
    request = &QueryLicensesRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", "", "")
    return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
    response = &QueryLicensesResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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1.835 libpcap 1.9.1-r0

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1.836 linux-yocto

5.4.142+git0+719be4bd6c_108b8b-r0

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#
# Multi-Category Security translation table for SELinux
#
#
# Objects can be categorized with 0-1023 categories defined by the admin.
# Objects can be in more than one category at a time.
# Categories are stored in the system as c0-c1023. Users can use this
# table to translate the categories into a more meaningful output.
# Examples:
# s0:c0=CompanyConfidential
# s0:c1=PatientRecord
# s0:c2=Unclassified
# s0:c3=TopSecret
# s0:c1,c3=CompanyConfidentialRedHat
s0=SystemLow
s0=s0:c0.c1023=SystemLow-SystemHigh
s0:c0.c1023=SystemHigh

Found in path(s):
*/opt/cola/permits/1229754484_1648300922.82/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targa
meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/files/setrans-mcs.conf

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From 7002b4e33b949b474a0ce0b78a7f2e180dbbc9bb Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Tue, 9 Feb 2021 17:31:55 +0800
Subject: [PATCH] policy/modules/system/modutils: allow kmod_t to write keys

Fixes:
kernel: cfg80211: Problem loading in-kernel X.509 certificate (-13)

avc: denied { write } for pid=219 comm="modprobe"
scontext=system_u:system_r:kmod_t tcontext=system_u:system_r:kmod_t
tclass=key permissive=0
Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
---

policy/modules/system/modutils.te | 2 ++
1 file changed, 2 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index ee249ae04..b8769bc02 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -43,6 +43,8 @@ allow kmod_t self:rawip_socket create_socket_perms;

+allow kmod_t self:key write;
+
+# Read module config and dependency information
list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)
--

2.17.1

Found in path(s):
*/opt/cola/permits/1229754484_1648300922.82/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targets/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0063-policy-modules-system-modutils-allow-kmod_t-to-write.patch

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meta-selinux
============

This layer's purpose is enabling SE Linux support.

The majority of this layer's work is accomplished in bbappend files, used to enable SE Linux support in existing recipes.

A new recipes-security was added. The purpose of this category is to add software specific to system security.

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Dependencies
------------

This layer depends on the openembedded-core metadata and the meta-python and
meta-oe layers from the meta-openembedded repository.

Maintenance
------------
Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Building the meta-selinux layer
-------------------------------
In order to add selinux support to the poky build this layer should be added to your projects bblayers.conf file.

By default the selinux components are disabled. This conforms to the Yocto Project compatible guideline that indicate that simply including a layer should not change the system behavior.

In order to use the components in this layer you must add the 'selinux' to the DISTRO_FEATURES. In addition to selinux, you should be sure that acl, xattr and pam are also present.

    e.g. DISTRO_FEATURES_append = " acl xattr pam selinux"

You must also specify a preferred provider for the virtual/refpolicy. The included policies with this layer are simply reference policies and will need to be tailored for your environment.

* Enable the refpolicy-mls:
  
    e.g. PREFERRED_PROVIDER_virtual/refpolicy ?= "refpolicy-mls"

Using different versions of refpolicy
-------------------------------------
To prepare selinux enabled images using different ver. of refpolicy, we can choose supported releases of refpolicy refer to available versions under recipes-security/refpolicy

We can use the refpolicy directly from git repository instead of release tarballs. By default refpolicy from git builds head commit of master branch, we can update SRCREV for refpolicy and refpolicy-contrib as appropriate at refpolicy/git.inc to check refpolicy as per required commits.

* enable the preferred refpolicy-minimum:

    PREFERRED_VERSION_refpolicy-minimum = "2.20151208"
    PREFERRED_VERSION_refpolicy = "2.20151208"

Using different init manager
-----------------------------
By default selinux enabled images coming up with "sysvinit" as init manager, we can use "systemd" as an init manager using below changes to local.conf

* enable systemd as init manager changes to local.conf

DISTRO_FEATURES_remove = " sysvinit"
DISTRO_FEATURES_append = " systemd"
VIRTUAL-RUNTIME_init_manager = "systemd"
DISTRO_FEATURES_BACKFILL_CONSIDERED = ""

Starting up the system
----------------------
Most likely the reference policy selected will not just work "out of the box".

As always, if you update the reference policy to better work with OpenEmbedded or Poky configurations, please submit the changes back to the project.

When using 'core-image-selinux', the system will boot and automatically setup the policy by running the "fixfiles -f -F relabel" for you. This is implemented via the 'selinux-autorelabel' recipe.

The 'core-image-selinux-minimal' does not automatically relabel the system. So you must boot using the parameters "selinux=1 enforcing=0", and then manually perform the setup. Running 'fixfiles -f -F relabel' is available in this configuration.

After logging in you can verify selinux is present using:

$ sestatus

Output should include:
SELinux status: enabled
... Current mode: enforcing
...

The above indicates that selinux is currently running, and if you are running in an enforcing mode or not.

License
-------

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The SELinux lockdown implementation was introduced since kernel 5.6 by commit 59438b463718e6c1f79a843f764c790d1f928d2. We need to allow mod_t and udev_t to access confidentiality of class lockdown to mount tracefs.

Fixes:
- kernel: Could not create tracefs 'iwlwifi_data/filter' entry
- kernel: Could not create tracefs 'enable' entry
- kernel: Could not create tracefs 'id' entry
- kernel: Could not create tracefs 'filter' entry
- kernel: Could not create tracefs 'trigger' entry
- kernel: Could not create tracefs 'format' entry
- audit[170]: AVC avc: denied { confidentiality } for pid=170
  comm="modprobe" lockdown_reason="use of tracefs"
  scontext=system_u:system_r:kmod_t:s0-s15:c0.c1023
  tcontext=system_u:system_r:kmod_t:s0-s15:c0.c1023 tcperm=lockdown
  permissive=0
- audit[190]: AVC avc: denied { confidentiality } for pid=190
  comm="systemd-udevd" lockdown_reason="use of tracefs"
  scontext=system_u:system_r:udev_t:s0-s15:c0.c1023
  tcontext=system_u:system_r:udev_t:s0-s15:c0.c1023 tcperm=lockdown
  permissive=0

Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
@@ -41,6 +41,8 @@ dontaudit kmod_t self:capability sys_admin;
 allow kmod_t self:udp_socket create_socket_perms;
 allow kmod_t self:rawip_socket create_socket_perms;

+allow kmod_t self:lockdown confidentiality;
+  
+  # Read module config and dependency information
list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)
diff --git a/policy/modules/system/udev.te b/policy/modules/system/udev.te
index 4a2283b6c..daf64482f 100644
--- a/policy/modules/system/udev.te
+++ b/policy/modules/system/udev.te
@@ -61,6 +61,8 @@ allow udev_t self:rawip_socket create_socket_perms;
  # for systemd-udevd to rename interfaces
 allow udev_t self:netlink_route_socket nlmsg_write;

+allow udev_t self:lockdown confidentiality;
+  
+  can_exec(udev_t, udev_exec_t)

allow udev_t udev_helper_exec_t:dir list_dir_perms;
--
2.17.1

Found in path(s):
* /opt/cola/permits/1229754484_1648300922.82/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-
gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0037-policy-
modules-system-modutils-allow-mod_t-to-access.patch

1.837 gnutls 3.3.5
1.837.1 Available under license:

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========

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1.839 policycoreutils 3.0-r0

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- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs
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@page
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"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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making modifications to it. For a library, complete source code means
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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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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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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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Some devices are designed to deny users access to install or run
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The "source code" for a work means the preferred form of the work
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"Major Component", in this context, means a major essential component
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(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
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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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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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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Ty Coon, President of Vice

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/* number.c: Implements arbitrary precision numbers. */
/*

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*************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num  
bc_new_num (length, scale)  
   int length, scale;  
{  
   bc_num temp;

   if (_bc_Free_list != NULL) {  
      temp = _bc_Free_list;  
      _bc_Free_list = temp->n_next;  
   } else {  
      temp = (bc_num) malloc (sizeof(bc_struct));  
      if (temp == NULL) bc_out_of_memory ();  
   }
   temp->n_sign = PLUS;  
   temp->n_len = length;  
   temp->n_scale = scale;  
   temp->n_refs = 1;  
   temp->n_ptr = (char *) malloc (length+scale);  
   if (temp->n_ptr == NULL) bc_out_of_memory ();  
   temp->n_value = temp->n_ptr;  
   memset (temp->n_ptr, 0, length+scale);  
   return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only frees the storage if reference count is zero. */

void  
bc_free_num (num)  
   bc_num *num;  
{  
   if (*num == NULL) return;  
   (*num)->n_refs--;  
   if ((*num)->n_refs == 0) {  
      if ((*num)->n_ptr)  
         free ((*num)->n_ptr);  
      (*num)->n_next = _bc_Free_list;  
      _bc_Free_list = *num;
   }  
   *num = NULL;
/* Intialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM. 
_bc_rm_leading_zeros just moves the data "value" pointer to the 
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}
/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less than N2 and +1 if N1 is greater than N2. If USESIGN is false, just compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
  bc_num n1, n2;
  int use_sign;
  int ignore_last;
{
  char *n1ptr, *n2ptr;
  int count;

  /* First, compare signs. */
  if (use_sign && n1->n_sign != n2->n_sign)
    {
    if (n1->n_sign == PLUS)
      return (1); /* Positive N1 > Negative N2 */
    else
      return (-1); /* Negative N1 < Positive N1 */
    }

  /* Now compare the magnitude. */
  if (n1->n_len != n2->n_len)
    {
    if (n1->n_len > n2->n_len)
      {
      /* Magnitude of n1 > n2. */
      if (!use_sign || n1->n_sign == PLUS)
        return (1);
      else
        return (-1);
      }
    else
      {
      /* Magnitude of n1 < n2. */
      if (!use_sign || n1->n_sign == PLUS)
        return (-1);
      else
        return (1);
      }
    }

  /* If we get here, they have the same number of integer digits. */
check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
        {
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
        }
    }
}
else
{
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
        if (*n2ptr++ != 0)
            { /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int bc_compare (n1, n2)
    bc_num n1, n2;
{ return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char bc_is_neg (num)
    bc_num num;
{ return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char bc_is_zero (num)
    bc_num num;
{ int  count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;
/* Initialize */
count = num->n_len + num->n_scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
Specifically, all but the last digit is 0 and the last digit is 1.
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */
static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

    /* Add the fraction part. First copy the longer fraction. */
    if (n1bytes != n2bytes)
    {
        if (n1bytes > n2bytes)
            while (n1bytes > n2bytes)
                *sumptr-- = *n1ptr--;
        else
            while (n2bytes > n1bytes)
                *sumptr-- = *n2ptr--;
    }

    /* Now add the remaining fraction part and equal size integer parts. */
    n1bytes += n1->n_len;
    n2bytes += n2->n_len;
    carry = 0;
    while ((n1bytes > 0) && (n2bytes > 0))
    {
*sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    { 
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
        {
            carry = 1;
            *sumptr -= BASE;
        }
        else
        carry = 0;
        sumptr--;
    }

/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
.bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num
.bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
bc_num diff;
int diff_scale, diff_len;
int min_scale, min_len;
char *n1ptr, *n2ptr, *diffptr;
int borrow, count, val;

/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
} else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
            { val += BASE; borrow = 1; }
else
  borrow = 0;
  *diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
  val = *n1ptr-- - *n2ptr-- - borrow;
  if (val < 0)
  {
    val += BASE;
    borrow = 1;
  }
  else
    borrow = 0;
  *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
  for (count = diff_len - min_len; count > 0; count--)
  {
    val = *n1ptr-- - borrow;
    if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
    else
      borrow = 0;
    *diffptr-- = val;
  }
}

/* Clean up and return. */
.bc_rm_leading_zeros (diff);
return diff;

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */
void bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
            break;
        case  0:
            /* They are equal! return zero! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            diff = bc_new_num (1, res_scale);
            memset (diff->n_value, 0, res_scale+1);
            break;
        case  1:
            /* n2 is less than n1, subtract n2 from n1. */
            diff = _bc_do_sub (n1, n2, scale_min);
            diff->n_sign = n1->n_sign;
            break;
        }
    } /* Clean up and return. */
    bc_free_num (result);
    *result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
 N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
  bc_num n1, n2, *result;
  int scale_min;
{
  bc_num sum = NULL;
  int cmp_res;
  int res_scale;

  if (n1->n_sign == n2->n_sign)
  {
    sum = _bc_do_add (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
  }
  else
  {
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
    case -1:
      /* n1 is less than n2, subtract n1 from n2. */
      sum = _bc_do_sub (n2, n1, scale_min);
      sum->n_sign = n2->n_sign;
      break;
    case 0:
      /* They are equal! return zero with the correct scale! */
      res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
      sum = bc_new_num (1, res_scale);
      memset (sum->n_value, 0, res_scale+1);
      break;
    case 1:
      /* n2 is less than n1, subtract n2 from n1. */
      sum = _bc_do_sub (n1, n2, scale_min);
      sum->n_sign = n1->n_sign;
    }
  }

  /* Clean up and return. */
  bc_free_num (result);
  *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#endif
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ()
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

static void
_bcsimp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod, int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
        sum += *n1ptr-- * *n2ptr++;
    *pvptr-- = sum % BASE;
    sum = sum / BASE;
}
*pvptr = sum;

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm.  Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0.  (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *)(accum->n_value + accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *)(val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--)
            if (*accp < 0) {
                carry = 1;
                *accp-- += BASE;
            } else {  
                carry = 0;
                accp--;
            }
    }
while (carry) {
    *accp -= carry;
    if (*accp < 0)
        *accp-- += BASE;
    else
        carry = 0;
}
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
            accp--;
        }
    }
}

/* Recursive divide and conquer multiply algorithm.
   Based on
   Let u = u0 + u1*b^n
   Let v = v0 + v1*b^n
   Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0
   B is the base of storage, number of digits in u1,u0 close to equal.
   */
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
              int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
    _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
    return;
}

/* Calculate n -- the u and v split point in digits. */
/* n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}

_m1zero = bc_is_zero(u1) || bc_is_zero(v1);
/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
_bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
  m3 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
}
  _bc_shift_addsub (*prod, m3, n, 0);
  _bc_shift_addsub (*prod, m3, 0, 0);
  _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
   the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
   */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

/* Initialize things. */
len1 = n1->n_len + n1->n_scale;
len2 = n2->n_len + n2->n_scale;
full_scale = n1->n_scale + n2->n_scale;
prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

/* Do the multiply */
_bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
  pval->n_sign = PLUS;
bfree_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
    {
        if (digit == 1)
            memcpy (result, num, size);
        else
        {
            /* Initialize */
            nptr = (unsigned char *) (num+size-1);
            rptr = (unsigned char *) (result+size-1);
            carry = 0;
        }
    }
while (size-- > 0)
{
    value = *nptr-- * digit + carry;
    *rptr-- = value % BASE;
    carry = value / BASE;
}

if (carry != 0) *rptr = carry;
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int  scale1, val;
    unsigned int  len1, len2, scale2, qdigits, extra, count;
    unsigned int  qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int  norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && &*n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len],0,scale);
            memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale,scale));
            bc_free_num (quot);
            return 0;
        }
        else
            return -1;
    }
*quot = qval;
}
}

/* Set up the divide. Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
   extra = scale - scale1;
else
   extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
um2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
   n2ptr++;
   len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
   qdigits = scale+1;
   zero = TRUE;
}
else
{
   zero = FALSE;
   if (len2>len1)
      qdigits = scale+1; /* One for the zero integer part. */
   else
      qdigits = len1-len2+scale+1;
}
/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
  /* Normalize */
  norm = 10 / ((int)*n2ptr + 1);
  if (norm != 1)
  {
    _one_mult (num1, len1+scale1+extra+1, norm, num1);
    _one_mult (n2ptr, len2, norm, n2ptr);
  }

  /* Initialize divide loop. */
  qdig = 0;
  if (len2 > len1)
    qptr = (unsigned char *) qval->n_value+len2-len1;
  else
    qptr = (unsigned char *) qval->n_value;

  /* Loop */
  while (qdig <= len1+scale-len2)
  {
    /* Calculate the quotient digit guess. */
    if (*n2ptr == num1[qdig])
      qguess = 9;
    else
      qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

    /* Test qguess. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
    {
      qguess--; /* And again. */
      if (n2ptr[1]*qguess >
          (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
          + num1[qdig+2])
        qguess--; /* And again. */
    }
  }
}
/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
}
/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}
/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0;/* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
 NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
 is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
   bc_num num1, num2, *quot, *rem;
   int scale;
{
   bc_num quotient = NULL;
   bc_num temp;
   int rscale;

   /* Check for correct numbers. */
   if (bc_is_zero (num2)) return -1;

   /* Calculate final scale. */
   rscale = MAX (num1->n_scale, num2->n_scale+scale);
   bc_init_num(&temp);

   /* Calculate it. */
   bc_divide (num1, num2, &temp, scale);
   if (quot)
      quotient = bc_copy_num (temp);
   bc_multiply (temp, num2, &temp, rscale);
   bc_sub (num1, temp, rem, rscale);
   bc_free_num (&temp);

   if (quot)
{  
    bc_free_num (quot);  
    quot = quotient;  
}  

return 0; /* Everything is OK. */

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the  
result in RESULT. */

int  
bc_modulo (num1, num2, result, scale)  
  
    bc_num num1, num2, *result;  
    int scale;  
{  
    return bc_divmod (num1, num2, NULL, result, scale);  
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is  
placed in RESULT. If a EXPO is not an integer,  
only the integer part is used. */

int  
bc_raisemod (base, expo, mod, result, scale)  
    bc_num base, expo, mod, *result;  
    int scale;  
{  
    bc_num power, exponent, parity, temp;  
    int rscale;  

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;  
    if (bc_is_neg(expo)) return -1;  

    /* Set initial values. */
    power = bc_copy_num (base);  
    exponent = bc_copy_num (expo);  
    temp = bc_copy_num (_one_);  
    bc_init_num(&parity);  

    /* Check the base for scale digits. */
    if (base->n_scale != 0)  
        bc_rt_warn ("non-zero scale in base");  

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
{  
    bc_rt_warn ("non-zero scale in exponent");  
    bc_divide (exponent, _one_., &exponent, 0); /*truncate */  
}

/* Check the modulus for scale digits. */  
if (mod->n_scale != 0)  
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */  
rscale = MAX(scale, base->n_scale);  
while ( !bc_is_zero(exponent) )  
    {  
        (void) bc_divmod (exponent, _two_., &exponent, &parity, 0);  
        if ( !bc_is_zero(parity) )  
            {  
                bc_multiply (temp, power, &temp, rscale);  
                (void) bc_modulo (temp, mod, &temp, scale);  
            }  
        bc_multiply (power, power, &power, rscale);  
        (void) bc_modulo (power, mod, &power, scale);  
    }

/* Assign the value. */  
bc_free_num (&power);  
bc_free_num (&exponent);  
bc_free_num (result);  
*result = temp;  
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.  
 Maximum exponent is LONG_MAX. If a NUM2 is not an integer,  
 only the integer part is used. */

void  
bc_raise (num1, num2, result, scale)  
    bc_num num1, num2, *result;  
    int scale;  
{  
    bc_num temp, power;  
    long exponent;  
    int rscale;  
    int pwrscale;  
    int calcscale;  
    char neg;
/* Check the exponent for scale digits and convert to a long. */
if (num2->n_scale != 0)
    bc_rt_warn("non-zero scale in exponent");
exponent = bc_num2long(num2);
if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error("exponent too large in raise");

/* Special case if exponent is a zero. */
if (exponent == 0)
{
    bc_free_num(result);
    *result = bc_copy_num(_one_);
    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN(num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num(num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply(power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num(power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply(power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
    }
bc_multiply (temp, power, &temp, calcscale);
}

exponent = exponent >> 1;

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}
bc_free_num (&power);

/* Take the square root NUM and return it in NUM with SCALE digits
 after the decimal place. */

int bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0; /* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
        cmp_res = bc_compare (*num, _one_);
        if (cmp_res == 0)
*/ Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
cscale = MIN (cscale*3, rscale+1);
else
    done = TRUE;
}
}

/* Assign the number and clean up. */
bc_free_num (num);
b_divide (guess, _one_, num, rscale);
b_free_num (&guess);
b_free_num (&guess1);
b_free_num (&point5);
b_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
   using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long  digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
   SIZE characters must be output for the value VAL. If SPACE is
   non-zero, we must output one space before the number. OUT_CHAR
   is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;
if (space) (*out_char) (" ");
sprintf (digits, "%ld", val);
len = strlen (digits);
while (size > len)
{
    (*out_char) ('0');
    size--;
}
for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/* Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
 as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
        else
            if (o_base == 10)
                /* The number is in base 10, do it the fast way. */
                nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
                for (index=num->n_len; index>0; index--)
                    (*out_char) (BCD_CHAR(*nptr++));
            else
                nptr++;
if (leading_zero && \&\& bc_is_zero (num))
    (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}
else
{
/* special case ... */
    if (leading_zero && \&\& bc_is_zero (num))
        (*out_char) ('0');

    /* The number is some other base. */
    digits = NULL;
    bc_init_num (&int_part);
    bc_divide (num, _one_, &int_part, 0);
    bc_init_num (&frac_part);
    bc_init_num (&cur_dig);
    bc_init_num (&base);
    bc_sub (num, int_part, &frac_part, 0);
    /* Make the INT_PART and FRAC_PART positive. */
    int_part->n_sign = PLUS;
    frac_part->n_sign = PLUS;
    bc_int2num (&base, o_base);
    bc_init_num (&max_o_digit);
    bc_int2num (&max_o_digit, o_base-1);

    /* Get the digits of the integer part and push them on a stack. */
    while (!bc_is_zero (int_part))
    {
        bc_modulo (int_part, base, \&cur_dig, 0);
        temp = (stk_rec *) malloc (sizeof(stk_rec));
        if (temp == NULL) bc_out_of_memory();
        temp->digit = bc_num2long (cur_dig);
        temp->next = digits;
        digits = temp;
        bc_divide (int_part, base, \&int_part, 0);
    }

    /* Print the digits on the stack. */
    if (digits != NULL)
    {

/* Output the digits. */
while (digits != NULL)
{
    temp = digits;
    digits = digits->next;
    if (o_base <= 16)
        (*out_char) (ref_str[(int) temp->digit]);
    else
        bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
    free (temp);
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bfullname (&frac_part);
bfullname (&base);
bfullname (&cur_dig);
bfullname (&max_o_digit);

/* Convert a number NUM to a long. The function returns only the integer part of the number. For numbers that are too large to represent as a long, this function returns a zero. This can be detected by checking the NUM for zero after having a zero returned. */
long
bc_num2long (num)
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
        {
            neg = 1;
            val = -val;
        }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int index, signch;

    /* Allocate the string memory. */
    signch = (num->n_sign == PLUS ? 0 : 1); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

    /* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-';

    /* Load the whole number. */
    nptr = num->n_value;
    for (index=num->n_len; index>0; index--)
        *sptr++ = BCD_CHAR(*nptr++);
/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}

/* Convert strings to bc numbers. Base 10 only. */
void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-') ) ptr++; /* Sign */
    while (*ptr == '0') ptr++; /* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
    if (*ptr == '.') ptr++ /* decimal point */
    while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
    if (!(ptr != '\0') || (digits+strscale == 0))
    {
        *num = bc_copy_num (_zero_);
        return;
    }

    /* Adjust numbers and allocate storage and initialize fields. */
    strscale = MIN(strscale, scale);
    if (digits == 0)
    {
        zero_int = TRUE;
    }
digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-'){
    (*num)->n_sign = MINUS;
    ptr++;
}
else{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int){
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0){
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
 void pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
    {
      int i;
      printf ("%s=", name);
      for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
      printf ("\n");
    }

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Version 2.1, February 1999

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

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

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

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b) Use a suitable shared library mechanism for linking with the
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October 28, 1997

Sam Lantinga (slouken@libsdl.org)

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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_1.pod
cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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Files:
cpan/bignum/*
cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
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dist/Math-BigRat/*
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dist/base/*
dist/constant/*
dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opocode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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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, 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, deestation, 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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# Test multiple notices all display at once.
query T noticetrace
SELECT crdb_internal.notice('hi'), crdb_internal.notice('i am....'), crdb_internal.notice('otan!!!')
----
NOTICE: hi
NOTICE: i am....
NOTICE: otan!!!

subtest test_notice_severity

query T noticetrace
SELECT crdb_internal.notice('debug1', 'do not see this'), crdb_internal.notice('warning', 'but you see this'),
crdb_internal.notice('debug2', 'and never this')
----
WARNING: but you see this
statement ok
SET client_min_messages = 'debug1'

query T noticetrace
SELECT crdb_internal.notice('debug1', 'now you see this'), crdb_internal.notice('warning', 'and you see this'), crdb_internal.notice('debug2', 'and never this')
----
DEBUG1: now you see this
WARNING: and you see this

statement ok
CREATE DATABASE d;
CREATE TABLE d.t (x int)

query T noticetrace
ALTER TABLE d.t RENAME TO d.t2
----
NOTICE: renaming tables with a qualification is deprecated
HINT: use ALTER TABLE d.t RENAME TO t2 instead

# Start off with an empty enum, and add values to it.
statement ok
CREATE TYPE color AS ENUM ()

statement ok
ALTER TYPE color ADD VALUE 'black'

query T noticetrace
ALTER TYPE color ADD VALUE IF NOT EXISTS 'black'
----
NOTICE: enum value "black" already exists, skipping

statement ok
CREATE MATERIALIZED VIEW v AS SELECT 1

query T noticetrace
REFRESH MATERIALIZED VIEW CONCURRENTLY v
----
NOTICE: CONCURRENTLY is not required as views are refreshed concurrently

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package base

import (
    "context"
    "time"
    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
)

var errEnterpriseNotEnabled = errors.New("OSS binaries do not include enterprise features")

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
// This function is overridden by an init hook in CCL builds.
var CheckEnterpriseEnabled = func(_ *cluster.Settings, _ uuid.UUID, org, feature string) error {
    return errEnterpriseNotEnabled // nb: this is squarely in the hot path on OSS builds
}

// TimeToEnterpriseLicenseExpiry returns a duration object that measures the time until
// the currently set enterprise license expires starting from the 3rd argument
// passed in.
// This function is overridden by an init hook in CCL builds
var TimeToEnterpriseLicenseExpiry = func(ctx context.Context, _ *cluster.Settings, _ time.Time, ) (time.Duration, error) {
    return 0, nil
}

// LicenseType returns what type of license the cluster is running with, or
// "OSS" if it is an OSS build.
// This function is overridden by an init hook in CCL builds.
var LicenseType = func(st *cluster.Settings) (string, error) {
    return "OSS", nil
}

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package builtins

import (
    "strings"

    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
    "github.com/cockroachdb/cockroach/pkg/sql/sem/tree"
    "github.com/cockroachdb/errors"
)

// crdbInternalSendNotice sends a notice.
// Note this is extracted to a different file to prevent churn on the pgwire
// test, which records line numbers.
func crdbInternalSendNotice(
ctx *tree.EvalContext, severity string, msg string, ) (tree.Datum, error) {
if ctx.ClientNoticeSender == nil {
return nil, errors.AssertionFailedf("notice sender not set")
}
ctx.ClientNoticeSender.BufferClientNotice(
ctx.Context,
pgnore.NewWithSeverityf(strings.ToUpper(severity), "%s", msg),
)
return tree.NewDInt(0), nil
}

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# External Contributors - Hall of Fame

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Contributions from: [cockroach](https://github.com/cockroachdb/cockroach), [pebble](https://github.com/cockroachdb/pebble), [docs](https://github.com/cockroachdb/docs), [activerecord-cockroachdb-adapter](https://github.com/cockroachdb/activerecord-cockroachdb-adapter), [cockroach-go](https://github.com/cockroachdb/cockroach-go), [cockroach-...

## All-Time External Contributors

330 contributors, 1609 commits


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## By Year

### 2020

96 contributors, 333 commits


### 2019

48 contributors, 144 commits


### 2018

54 contributors, 120 commits

### 2017

73 contributors, 250 commits


### 2016

42 contributors, 320 commits

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### 2015

43 contributors, 308 commits


### 2014

---

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---

12687
17 contributors, 134 commits

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# Test notices work as expected by creating a VIEW on a TEMP TABLE.

# Prepare the environment.

send
Query {"String": "DROP TABLE IF EXISTS t CASCADE"}
----

until ignore=NoticeResponse
ReadyForQuery
----

{"Type":"CommandComplete","CommandTag":"DROP TABLE"}
{"Type":"ReadyForQuery","TxStatus":"I"}
# Start of test.

send
Query {"String": "CREATE TABLE t(x INT, y INT)"}

until
ReadyForQuery

{ "Type": "CommandComplete", "CommandTag": "CREATE TABLE" }
{ "Type": "ReadyForQuery", "TxStatus": "I" }

send
Query {"String": "CREATE INDEX t_x_idx ON t(x)"}

until
ReadyForQuery

{ "Type": "CommandComplete", "CommandTag": "CREATE INDEX" }
{ "Type": "ReadyForQuery", "TxStatus": "I" }

send
Query {"String": "CREATE INDEX t_y_idx ON t(y)"}

until
ReadyForQuery

{ "Type": "CommandComplete", "CommandTag": "CREATE INDEX" }
{ "Type": "ReadyForQuery", "TxStatus": "I" }

# Check that crdb reports a notice upon drop index.

send
Query {"String": "DROP INDEX t_x_idx"}

until crdb_only
CommandComplete

{ "Severity": "NOTICE", "SeverityUnlocalized": ":", "Code": "00000", "Message": "the data for dropped indexes is reclaimed asynchronously", "Detail": ":", "Hint": "The reclamation delay can be customized in the zone configuration for the table.", "Position": 0, "InternalPosition": 0, "InternalQuery": ":", "Where": ":", "SchemaName": ":", "TableName": ":", "ColumnName": ":", "DataTypeName": ":", "ConstraintName": ":", "File": "drop_index.go", "Line": 547, "Routine": "dropIndexByName", "UnknownFields": null }
{"Type":"CommandComplete","CommandTag":"DROP INDEX"}
until noncrdb_only
CommandComplete
---{"Type":"CommandComplete","CommandTag":"DROP INDEX"}
until
ReadyForQuery
---{"Type":"ReadyForQuery","TxStatus":"I"}
# Disable notices and assert now it is not sent.
send crdb_only
Query {"String": "SET CLUSTER SETTING sql.notices.enabled = false"}
---until crdb_only
ReadyForQuery
---{"Type":"CommandComplete","CommandTag":"SET CLUSTER SETTING"}
{"Type":"ReadyForQuery","TxStatus":"I"}
# Check that the notice is not printed any more.
send
Query {"String": "DROP INDEX t_y_idx"}
---until
ReadyForQuery
---{"Type":"CommandComplete","CommandTag":"DROP INDEX"}
{"Type":"ReadyForQuery","TxStatus":"I"}
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//
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// the License. You may obtain a copy of the License at
//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt
package utilccl
import (
"bytes"
"context"
"strings"

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var enterpriseLicense = func() *settings.StringSetting {
    s := settings.RegisterValidatedStringSetting(
        "enterprise.license",
        "the encoded cluster license",
        "",
        func(sv *settings.Values, s string) error {
            _, err := decode(s)
            return err
        },
    )

    // Even though string settings are non-reportable by default, we
    // still mark them explicitly in case a future code change flips the
    // default.
    s.SetReportable(false)
    s.SetVisibility(settings.Public)
    return s
}

// enterpriseStatus determines whether the cluster is enabled
// for enterprise features or if enterprise status depends on the license.
var enterpriseStatus int32 = deferToLicense

const (
    deferToLicense = 0
    enterpriseEnabled = 1
)

// errEnterpriseRequired is returned by check() when the caller does
// not request detailed errors.
var errEnterpriseRequired = pgerror.New(pgcode.CCLValidLicenseRequired,
    "a valid enterprise license is required")
// licenseCacheKey is used to cache licenses in cluster.Settings.Cache,
// keeping the entries private.
type licenseCacheKey string

// TestingEnableEnterprise allows overriding the license check in tests.
func TestingEnableEnterprise() func() {
before := atomic.LoadInt32(&enterpriseStatus)
atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
return func() {
atomic.StoreInt32(&enterpriseStatus, before)
}
}

// TestingDisableEnterprise allows re-enabling the license check in tests.
func TestingDisableEnterprise() func() {
before := atomic.LoadInt32(&enterpriseStatus)
atomic.StoreInt32(&enterpriseStatus, deferToLicense)
return func() {
atomic.StoreInt32(&enterpriseStatus, before)
}
}

// ApplyTenantLicense verifies the COCKROACH_TENANT_LICENSE environment variable
// and enables enterprise features for the process. This is a bit of a hack and
// should be replaced once it is possible to read the host cluster's
// enterprise.license setting.
func ApplyTenantLicense() error {
license, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
if !ok {
return nil
}
if _, err := decode(license); err != nil {
return errors.Wrap(err, "COCKROACH_TENANT_LICENSE encoding is invalid")
}
atomic.StoreInt32(&enterpriseStatus, enterpriseEnabled)
return nil
}

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
//
// This should not be used in hot paths, since an unavailable feature will
// result in a new error being instantiated for every call -- use
// IsEnterpriseEnabled() instead.
func CheckEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) error {
return checkEnterpriseEnabledAt(st, timeutil.Now(), cluster, org, feature, true /* withDetails */)
// IsEnterpriseEnabled returns whether the requested enterprise feature is enabled. It is faster than CheckEnterpriseEnabled, since it does not return details about why the feature is unavailable, and can therefore be used in hot paths.
func IsEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) bool {
    return checkEnterpriseEnabledAt(
st, timeutil.Now(), cluster, org, feature, false /* withDetails */ == nil
}

func init() {
    base.CheckEnterpriseEnabled = CheckEnterpriseEnabled
    base.LicenseType = getLicenseType
    base.TimeToEnterpriseLicenseExpiry = TimeToEnterpriseLicenseExpiry
    server.ApplyTenantLicense = ApplyTenantLicense
}

// TimeToEnterpriseLicenseExpiry returns a Duration from `asOf` until the current enterprise license expires. If a license does not exist, we return a zero duration.
func TimeToEnterpriseLicenseExpiry(ctx context.Context, st *cluster.Settings, asOf time.Time, ) (time.Duration, error) {
    license, err := getLicense(st)
    if err != nil || license == nil {
        return 0, err
    }
    expiration := timeutil.Unix(license.ValidUntilUnixSec, 0)
    return expiration.Sub(asOf), nil
}

func checkEnterpriseEnabledAt(
st *cluster.Settings, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool,
) error {
    if atomic.LoadInt32(&enterpriseStatus) == enterpriseEnabled {
        return nil
    }
    license, err := getLicense(st)
    if err != nil {
        return err
    }
    return check(license, at, cluster, org, feature, withDetails)
}

// getLicense fetches the license from the given settings, using Settings.Cache to cache the decoded license (if any). The returned license must not be
// modified by the caller.
func getLicense(st *cluster.Settings) (*licenseccl.License, error) {
    str := enterpriseLicense.Get(&st.SV)
    if str == "" {
        return nil, nil
    }
    cacheKey := licenseCacheKey(str)
    if cachedLicense, ok := st.Cache.Load(cacheKey); ok {
        return cachedLicense.(*licenseccl.License), nil
    }
    license, err := decode(str)
    if err != nil {
        return nil, err
    }
    st.Cache.Store(cacheKey, license)
    return license, nil
}

func getLicenseType(st *cluster.Settings) (string, error) {
    license, err := getLicense(st)
    if err != nil {
        return "", err
    } else if license == nil {
        return "None", nil
    }
    return license.Type.String(), nil
}

// decode attempts to read a base64 encoded License.
func decode(s string) (*licenseccl.License, error) {
    lic, err := licenseccl.Decode(s)
    if err != nil {
        return nil, pgerror.WithCandidateCode(err, pgcode.Syntax)
    }
    return lic, nil
}

// check returns an error if the license is empty or not currently valid. If
// withDetails is false, a generic error message is returned for performance.
func check(l *licenseccl.License, at time.Time, cluster uuid.UUID, org, feature string, withDetails bool, ) error {
    if l == nil {
        if !withDetails {
            return errEnterpriseRequired
        }
    // TODO(dt): link to some stable URL that then redirects to a helpful page
    // that explains what to do here.
link := "https://cockroachlabs.com/pricing?cluster="
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
"use of %s requires an enterprise license. "+
"see %s%s for details on how to enable enterprise features",
errors.Safe(feature),
link,
cluster.String(),
)
}

// We extend some grace period to enterprise license holders rather than
// suddenly throwing errors at them.
if l.ValidUntilUnixSec > 0 && l.Type != licenseccl.License_Enterprise {
if expiration := timeutil.Unix(l.ValidUntilUnixSec, 0); at.After(expiration) {
if !withDetails {
return errEnterpriseRequired
}
licensePrefix := redact.SafeString("")
switch l.Type {
case licenseccl.License_NonCommercial:
licensePrefix = "non-commercial "
case licenseccl.License_Evaluation:
licensePrefix = "evaluation "
}
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
"Use of %s requires an enterprise license. Your %slicense expired on %s. If you're "+
"interested in getting a new license, please contact subscriptions@cockroachlabs.com "+
"and we can help you out.",
errors.Safe(feature),
licensePrefix,
expiration.Format("January 2, 2006"),
)
}
}

if l.ClusterID == nil {
if strings.EqualFold(l.OrganizationName, org) {
return nil
}
if !withDetails {
return errEnterpriseRequired
}
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
"license valid only for %q", l.OrganizationName)
}

for _, c := range l.ClusterID {
if cluster == c {
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// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

import React from "react";
import step1Img from "assets/nodeMapSteps/1-getLicense.png";
import step2Img from "assets/nodeMapSteps/2-setKey.svg";
import step3Img from "assets/nodeMapSteps/3-seeMap.png";

import { NodeCanvasContainerOwnProps } from "src/views/clusterviz/containers/map/nodeCanvasContainer";
import * as docsURL from "src/util/docs";
import ".//needEnterpriseLicense.styl";

// This takes the same props as the NodeCanvasContainer which it is swapped out with.

function Step(props: { num: number; img: string; children: React.ReactNode }) {
  return (
    <div className="license-step">
      <img src={props.img} className="license-step__image" />
      <div className="license-step__text">
        <span className="license-step__stepnum">Step {props.num}:</span> {props.children}
      </div>
    </div>
  );
}

export default class NeedEnterpriseLicense extends React.Component<NodeCanvasContainerOwnProps> {
  render() {
    return (
      <section className="need-license">
        <div className="need-license-blurb">
          <div>
            <h1 className="base-heading need-license-blurb__header">View the Node Map</h1>
            <p className="need-license-blurb__text">
              The Node Map shows the geographical layout of your cluster, along with metrics and health indicators. To enable the Node Map, request an
            </p>
            <a href={docsURL.enterpriseLicensing} target="_blank" rel="noreferrer">Enterprise trial license</a>
        </div>
      </section>
    );
  }
}
and refer to this

<a href={docsURL.enableNodeMap} target="_blank" rel="noreferrer">configuration guide</a>

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package sql

import {
    "context"
}

"github.com/cockroachdb/cockroach/pkg/settings"
"github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
"github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
"github.com/cockroachdb/cockroach/pkg/util/log"

// NoticesEnabled is the cluster setting that allows users
// to enable notices.
var NoticesEnabled = settings.RegisterBoolSetting("sql.notices.enabled",
    "enable notices in the server/client protocol being sent",
    true,
    ).WithPublic()

// noticeSender is a subset of RestrictedCommandResult which allows
// sending notices.
type noticeSender interface {
    BufferNotice(pgnotice.Notice)
}

// BufferClientNotice implements the tree.ClientNoticeSender interface.
func (p *planner) BufferClientNotice(ctx context.Context, notice pgnotice.Notice) {
    if log.V(2) {
        log.Infof(ctx, "buffered notice: %+v", notice)
    }
    noticeSeverity, ok := pgnotice.ParseDisplaySeverity(pgerror.GetSeverity(notice))
    if !ok {
        noticeSeverity = pgnotice.DisplaySeverityNotice
    }
    if p.noticeSender == nil ||
        noticeSeverity > pgnotice.DisplaySeverity(p.SessionData().NoticeDisplaySeverity) ||
        !NoticesEnabled.Get(&p.execCfg.Settings.SV) {
        // Notice cannot flow to the client - because of one of these conditions:
        // * there is no client
        // * the session's NoticeDisplaySeverity is higher than the severity of the notice.
        // * the notice protocol was disabled
        return
    }
    p.noticeSender.BufferNotice(notice)
}

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// Code generated by protoc-gen-gogo. DO NOT EDIT.
// source: ccl/utilccl/licenseccl/license.proto

package licenseccl

import (
    fmt "fmt"
    github_com_cockroachdb_cockroach_pkg_util_uuid "github.com/cockroachdb/cockroach/pkg/util/uuid"
    _ "github.com/gogo/protobuf/gogoproto"
    proto "github.com/gogo/protobuf/proto"
    io "io"
    math "math"
    math_bits "math/bits"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.GoGoProtoPackageIsVersion3 // please upgrade the proto package

type License_Type int32

const ( License_NonCommercial License_Type = 0
    License_Enterprise License_Type = 1
    License_Evaluation License_Type = 2
)
var License_Type_name = map[int32]string{
    0: "NonCommercial",
    1: "Enterprise",
    2: "Evaluation",
}

var License_Type_value = map[string]int32{
    "NonCommercial": 0,
    "Enterprise":    1,
    "Evaluation":    2,
}

func (x License_Type) String() string {
    return proto.EnumName(License_Type_name, int32(x))
}

func (License_Type) EnumDescriptor() ([]byte, []int) {
    return fileDescriptor_765066c8b2c94c63, []int{0, 0}
}

type License struct {
    ClusterID         []github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
    `protobuf:"bytes,1,rep,name=cluster_id,json=clusterId,proto3,customtype=github.com/cockroachdb/cockroach/pkg/util/uuid.UUID" json:"cluster_id"`
    ValidUntilUnixSec int64
    `protobuf:"varint,2,opt,name=valid_until_unix_sec,json=validUntilUnixSec,proto3" json:"valid_until_unix_sec,omitempty"`
    Type              License_Type
    `protobuf:"varint,3,opt,name=type,proto3,enum=cockroach.ccl.utilccl.licenseccl.License_Type" json:"type,omitempty"`
    OrganizationName  string
    `protobuf:"bytes,4,opt,name=organization_name,json=organizationName,proto3" json:"organization_name,omitempty"`
}

func (m *License) Reset()         { *m = License{} }
func (m *License) String() string { return proto.CompactTextString(m) }
func (*License) ProtoMessage()    {}
func (*License) Descriptor() ([]byte, []int) {
    return fileDescriptor_765066c8b2c94c63, []int{0}
}
func (m *License) XXX_Unmarshal(b []byte) error {
    return m.Unmarshal(b)
}
func (m *License) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    b = b[:cap(b)]
n, err := m.MarshalToSizedBuffer(b)
if err != nil {
    return nil, err
}
return b[:n], nil

func (m *License) XXX_Merge(src proto.Message) {
    xxx_messageInfo_License.Merge(m, src)
}
func (m *License) XXX_Size() int {
    return m.Size()
}
func (m *License) XXX_DiscardUnknown() {
    xxx_messageInfo_License.DiscardUnknown(m)
}

var xxx_messageInfo_License proto.InternalMessageInfo

func init() {
    proto.RegisterEnum("cockroach.ccl.utilccl.licenseccl.License_Type", License_Type_name, License_Type_value)
    proto.RegisterType((*License)(nil), "cockroach.ccl.utilccl.licenseccl.License")
}

func init() {
    proto.RegisterTypeFile("ccl/utilccl/licenseccl/license.proto", fileDescriptor_765066c8b2e94c63)
}

var fileDescriptor_765066c8b2e94c63 = []byte{
    /* 362 bytes of a gzipped FileDescriptorProto */
}

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func (m *License) Marshal() (dAtA []byte, err error) {
    size := m.Size()
    dAtA = make([]byte, size)
    n, err := m.MarshalToSizedBuffer(dAtA[:size])
    if err != nil {
        return nil, err
    }
    return dAtA[:n], nil
}

func (m *License) MarshalTo(dAtA []byte) (int, error) {
    size := m.Size()
    return m.MarshalToSizedBuffer(dAtA[:size])
}

func (m *License) MarshalToSizedBuffer(dAtA []byte) (int, error) {
    i := len(dAtA)
    _ = i
    var l int
    _ = l
    if len(m.OrganizationName) > 0 {
        i -= len(m.OrganizationName)
        copy(dAtA[i:], m.OrganizationName)
        i = encodeVarintLicense(dAtA, i, uint64(len(m.OrganizationName)))
        i--
        dAtA[i] = 0x22
    }
    if m.Type != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.Type))
        i--
        dAtA[i] = 0x18
    }
    if m.ValidUntilUnixSec != 0 {
        i = encodeVarintLicense(dAtA, i, uint64(m.ValidUntilUnixSec))
        i--
        dAtA[i] = 0x10
    }
    if len(m.ClusterID) > 0 {
        for iNdEx := len(m.ClusterID) - 1; iNdEx >= 0; iNdEx-- {
            size := m.ClusterID[iNdEx].Size()
            i -= size
            ...}
if _, err := m.ClusterID[iNdEx].MarshalTo(dAtA[i:]); err != nil {
    return 0, err
}

i = encodeVarintLicense(dAtA, i, uint64(size))

i--
dAtA[i] = 0xa

return len(dAtA) - i, nil

func encodeVarintLicense(dAtA []byte, offset int, v uint64) int {
    offset -= sovLicense(v)
    base := offset
    for v >= 1<<7 {
        dAtA[offset] = uint8(v&0x7f | 0x80)
        v >>= 7
        offset++
    }
    dAtA[offset] = uint8(v)
    return base
}

func (m *License) Size() (n int) {
    if m == nil {
        return 0
    }
    var l int
    _ = l
    if len(m.ClusterID) > 0 {
        for _, e := range m.ClusterID {
            l = e.Size()
            n += 1 + l + sovLicense(uint64(l))
        }
        if m.ValidUntilUnixSec != 0 {
            n += 1 + sovLicense(uint64(m.ValidUntilUnixSec))
        }
        if m.Type != 0 {
            n += 1 + sovLicense(uint64(m.Type))
        }
        l = len(m.OrganizationName)
        if l > 0 {
            n += 1 + l + sovLicense(uint64(l))
        }
        return n
    }
func sovLicense(x uint64) (n int) {
    return (math_bits.Len64(x|1) + 6) / 7
}
func sozLicense(x uint64) (n int) {
    return sovLicense(uint64((x << 1) ^ uint64((int64(x) >> 63))))
}
func (m *License) Unmarshal(dAtA []byte) error {
    l := len(dAtA)
iNdEx := 0
    for iNdEx < l {
        preIndex := iNdEx
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            b := dAtA[iNdEx]
iNdEx++
            wire |= uint64(b&0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        fieldNum := int32(wire >> 3)
        wireType := int(wire & 0x7)
        if wireType == 4 {
            return fmt.Errorf("proto: License: wiretype end group for non-group")
        }
        if fieldNum <= 0 {
            return fmt.Errorf("proto: License: illegal tag %d (wire type %d)", fieldNum, wireType)
        }
        switch fieldNum {
            case 1:
                if wireType != 2 {
                    return fmt.Errorf("proto: wrong wireType = %d for field ClusterID", wireType)
                }
                var byteLen int
                for shift := uint(0); ; shift += 7 {
                    if shift >= 64 {
                        return ErrIntOverflowLicense
                    }
                    b := dAtA[iNdEx]
iNdEx++
                    byteLen |= int(b&0x7F) << shift
                    if b < 0x80 {
                        break
                    }
                }
                wireType = int(byteLen)
        }
    }
    return io.ErrUnexpectedEOF
}
iNdEx++
byteLen |= int(b&0x7F) << shift
if b < 0x80 { 
    break 
}
}
if byteLen < 0 { 
    return ErrInvalidLengthLicense
}
postIndex := iNdEx + byteLen
if postIndex < 0 { 
    return ErrInvalidLengthLicense
}
if postIndex > l { 
    return io.ErrUnexpectedEOF
}
var v github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
m.ClusterID = append(m.ClusterID, v)
if err := m.ClusterID[len(m.ClusterID)-1].Unmarshal(dAtA[iNdEx:postIndex]); err != nil { 
    return err
}
iNdEx = postIndex

case 2:
    if wireType != 0 { 
        return fmt.Errorf("proto: wrong wireType = %d for field ValidUntilUnixSec", wireType)
    }
    m.ValidUntilUnixSec = 0
    for shift := uint(0); ; shift += 7 { 
        if shift >= 64 { 
            return ErrIntOverflowLicense
        }
        if iNdEx >= l { 
            return io.ErrUnexpectedEOF
        }
        b := dAtA[iNdEx]
        iNdEx++
        m.ValidUntilUnixSec |= int64(b&0x7F) << shift
        if b < 0x80 { 
            break 
        }
    }
    }

case 3:
    if wireType != 0 { 
        return fmt.Errorf("proto: wrong wireType = %d for field Type", wireType)
    }
    m.Type = 0
    for shift := uint(0); ; shift += 7 { 
        if shift >= 64 { 
            return ErrIntOverflowLicense
        }
        if iNdEx >= l { 
            return io.ErrUnexpectedEOF
        }
        b := dAtA[iNdEx]
        iNdEx++
        m.Type |= int64(b&0x7F) << shift
        if b < 0x80 { 
            break 
        }
    }
return ErrIntOverflowLicense
}
if iNdEx >= 1 {
    return io.ErrUnexpectedEOF
}
b := dAtA[iNdEx]
iNdEx++
m.Type |= License_Type(b&0x7F) << shift
if b < 0x80 {
    break
}

case 4:
    if wireType != 2 {
        return fmt.Errorf("proto: wrong wireType = %d for field OrganizationName", wireType)
    }
    var stringLen uint64
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return ErrIntOverflowLicense
        }
        if iNdEx >= l {
            return io.ErrUnexpectedEOF
        }
b := dAtA[iNdEx]
iNdEx++
    stringLen |= uint64(b&0x7F) << shift
    if b < 0x80 {
        break
    }
    intStringLen := int(stringLen)
    if intStringLen < 0 {
        return ErrInvalidLengthLicense
    }
    postIndex := iNdEx + intStringLen
    if postIndex < 0 {
        return ErrInvalidLengthLicense
    }
    if postIndex > l {
        return io.ErrUnexpectedEOF
    }
m.OrganizationName = string(dAtA[iNdEx:postIndex])
iNdEx = postIndex
default:
iNdEx = preIndex
    skippy, err := skipLicense(dAtA[iNdEx:])
    if err != nil {
        return ErrInvalidLengthLicense
    }
    postIndex = iNdEx + int64(err)
    if postIndex < 0 {
        return ErrInvalidLengthLicense
    }
    if postIndex > l {
        return io.ErrUnexpectedEOF
    }
m.OrganizationName = string(dAtA[iNdEx:postIndex])
iNdEx = postIndex
return err
}
if (skippy < 0) || (iNdEx+skippy) < 0 {
    return ErrInvalidLengthLicense
}
if (iNdEx + skippy) > l {
    return io.ErrUnexpectedEOF
}
iNdEx += skippy
}

if iNdEx > l {
    return io.ErrUnexpectedEOF
}
return nil
}
func skipLicense(dAtA []byte) (n int, err error) {
    l := len(dAtA)
iNdEx := 0
    depth := 0
    for iNdEx < l {
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return 0, ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return 0, io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
iNdEx++
            wire |= (uint64(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        wireType := int(wire & 0x7)
        switch wireType {
        case 0:
            for shift := uint(0); ; shift += 7 {
                if shift >= 64 {
                    return 0, ErrIntOverflowLicense
                }
                if iNdEx >= l {
                    return 0, io.ErrUnexpectedEOF
                }
            }
            iNdEx++
if dAtA[iNdEx-1] < 0x80 {
    break
}
}

case 1:
iNdEx += 8

case 2:
    var length int
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return 0, ErrIntOverflowLicense
        }
        if iNdEx >= l {
            return 0, io.ErrUnexpectedEOF
        }
        b := dAtA[iNdEx]
        iNdEx++
        length |= (int(b) & 0x7F) << shift
        if b < 0x80 {
            break
        }
    }
    if length < 0 {
        return 0, ErrInvalidLengthLicense
    }
    iNdEx += length

    case 3:
        depth++

    case 4:
        if depth == 0 {
            return 0, ErrUnexpectedEndOfGroupLicense
        }
        depth--

    case 5:
        iNdEx += 4

default:
    return 0, fmt.Errorf("proto: illegal wireType %d", wireType)
}

if iNdEx < 0 {
    return 0, ErrInvalidLengthLicense
}

if depth == 0 {
    return iNdEx, nil
}

return 0, io.ErrUnexpectedEOF

var (  
ErrInvalidLengthLicense = fmt.Errorf("proto: negative length found during unmarshaling")  
ErrIntOverflowLicense = fmt.Errorf("proto: integer overflow")  
ErrUnexpectedEndOfGroupLicense = fmt.Errorf("proto: unexpected end of group")  
)

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// Copyright 2017 The Cockroach Authors.

import (  
  "fmt"  
  "testing"  
  "time"

  "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"  
  "github.com/cockroachdb/cockroach/pkg/testutils"  
  "github.com/cockroachdb/cockroach/pkg/util/timeutil"  
  "github.com/cockroachdb/cockroach/pkg/util/uuid"
)

func TestLicense(t *testing.T) {
  clusterA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
  clusterB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

  clustersA, clustersB := []uuid.UUID{clusterA}, []uuid.UUID{clusterB}

  t0 := timeutil.Unix(0, 0)
  ts := t0.AddDate(40, 0, 0)
  after := ts.Add(time.Hour * 24)
  before := ts.Add(time.Hour * -24)
  wayAfter := ts.Add(time.Hour * 24 * 365 * 200)

  for i, tc := range []struct {
    licType licenseccl.License_Type  
    grantedTo []uuid.UUID  
    expiration time.Time  
    checkCluster uuid.UUID  
    checkOrg string
  }

checkTime  time.Time
err          string
}
{licType: -1, err: "requires an enterprise license"},
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_Enterprise, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_NonCommercial, clustersA, ts, clusterA, "", ts, ""},
{licenseccl.License_Evaluation, clustersA, after, clusterA, "", ts, ""},
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", before, ""},
{licenseccl.License_Evaluation, clustersA, wayAfter, clusterA, "", ts, ""},

// expirations.
{licenseccl.License_Evaluation, clustersA, ts, clusterA, "", after, "expired"},
{licenseccl.License_Evaluation, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, after, clusterA, "", wayAfter, "expired"},
{licenseccl.License_NonCommercial, clustersA, t0, clusterA, "", wayAfter, ""},
{licenseccl.License_Evaluation, clustersA, t0, clusterA, "", wayAfter, ""},

// grace period.
{licenseccl.License_Enterprise, clustersA, after, clusterA, "", wayAfter, ""},

// mismatch.
{licenseccl.License_Enterprise, clustersA, ts, clusterB, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, clustersB, ts, clusterA, "", ts, "not valid for cluster"},
{licenseccl.License_Enterprise, append(clustersB, clusterA), ts, clusterA, "", ts, ""},
{licenseccl.License_Enterprise, nil, ts, clusterA, "", ts, "license valid only for"},
{licenseccl.License_Enterprise, nil, ts, clusterA, "tc-17", ts, ""},

} 
var lic *licenseccl.License
if tc.licType != -1 { 
s, err := (&licenseccl.License{
ClusterID: tc.grantedTo,
ValidUntilUnixSec: tc.expiration.Unix(),
Type: tc.licType,
OrganizationName: fmt.Sprintf("tc-%d", i),
}).Encode()
if err != nil { 
t.Fatal(err) 
}
lic, err = decode(s)
if err != nil { 
t.Fatal(err) 
}
}
if err := check(
lic, tc.checkTime, tc.checkCluster, tc.checkOrg, "", true,
); !testutils.IsError(err, tc.err) {
func TestBadLicenseStrings(t *testing.T) {
    for _, tc := range []struct{ lic, err string }{
        {"blah", "invalid license string"},
        {"crl-0-&&&&&", "invalid license string"},
        {"crl-0-blah", "invalid license string"},
    }
    if _, err := decode(tc.lic); !testutils.IsError(err, tc.err) {
        t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
    }
}

func TestExpiredLicenseLanguage(t *testing.T) {
    lic := &licenseccl.License{
        Type: licenseccl.License_Evaluation,
        ValidUntilUnixSec: 1,
    }
    err := check(lic, timeutil.Now(), uuid.MakeV4(), ",", "RESTORE", true)
    expected := "Use of RESTORE requires an enterprise license. Your evaluation license expired on " +
        "January 1, 1970. If you're interested in getting a new license, please contact " +
        "subscriptions@cockroachlabs.com and we can help you out."
    if err == nil || err.Error() !="expected err:\nin%\s\ngot:\nin\%\v", expected, err) {
        t.Fatalf("expected err:\nin%\s\ngot:\nin\%\v", expected, err)
    }
}

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//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

package utilccl

import (    "context"    "testing"    "time"    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"    "github.com/cockroachdb/cockroach/pkg/cluster"
    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"    "github.com/cockroachdb/cockroach/pkg/cluster"
    "github.com/cockroachdb/cockroach/pkg/cluster"
func TestSettingAndCheckingLicense(t *testing.T) {
    idA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    idB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

    ctx := context.Background()
    t0 := timeutil.Unix(0, 0)

    licA, _ := (&licenseccl.License{
        ClusterID: []uuid.UUID{idA},
        Type:     licenseccl.License_Enterprise,
        ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
    }).Encode()

    licB, _ := (&licenseccl.License{
        ClusterID: []uuid.UUID{idB},
        Type:     licenseccl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
    }).Encode()

    st := cluster.MakeTestingClusterSettings()

    for i, tc := range []struct {
        lic   string
        checkCluster uuid.UUID
        checkTime  time.Time
        err    string
    }{
        // NB: we're observing the update manifest as changed behavior -- detailed
        // testing of that behavior is left to licenseccl's own tests.
        // "", idA, t0, "requires an enterprise license"),
        // adding a valid lic.
        {licA, idA, t0, ""},
        // clearing an existing lic.
        {"", idA, t0, "requires an enterprise license"},
        // adding invalid lic.
        {licB, idA, t0, "not valid for cluster"},
        // clearing an existing, invalid lic.
        {'", idA, t0, "requires an enterprise license"},
    } {
        updater := st.MakeUpdater()
        if err := updater.Set(ctx, "enterprise.license", tc.lic, "s"); err != nil {

func TestGetLicenseTypePresent(t *testing.T) {
    ctx := context.Background()
    for _, tc := range []struct {
        licenseType licenseccl.License_Type
        expected    string
    }{
        {licenseccl.License_NonCommercial, "NonCommercial"},
        {licenseccl.License_Enterprise, "Enterprise"},
        {licenseccl.License_Evaluation, "Evaluation"},
    } {
        st := cluster.MakeTestingClusterSettings()
        updater := st.MakeUpdater()
        lic, _ := (&licenseccl.License{
            ClusterID:         []uuid.UUID{ },
            Type:              tc.licenseType,
            ValidUntilUnixSec: 0,
        }).Encode()
        if err := updater.Set(ctx, "enterprise.license", lic, "s"); err != nil {
            t.Fatal(err)
        }
        actual, err := getLicenseType(st)
        if err != nil {
            t.Fatal(err)
        }
        if actual != tc.expected {
            t.Fatalf("expected license type %s, got %s", tc.expected, actual)
        }
    }
}

func TestGetLicenseTypeAbsent(t *testing.T) {
    expected := "None"
    actual, err := getLicenseType(cluster.MakeTestingClusterSettings())
    if err != nil {
        t.Fatal(err)
    }
    if actual != expected {
        t.Fatalf("expected license type %s, got %s", expected, actual)
    }
}
func TestSettingBadLicenseStrings(t *testing.T) {
    ctx := context.Background()
    for _, tc := range []struct{ lic, err string }{
        {"blah", "invalid license string"},
        {"cl-0-blah", "invalid license string"},
    } {
        st := cluster.MakeTestingClusterSettings()
        u := st.MakeUpdater()
        if err := u.Set(ctx, "enterprise.license", tc.lic, "s"); !testutils.IsError(err, tc.err) {
            t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
        }
    }
}

func TestTimeToEnterpriseLicenseExpiry(t *testing.T) {
    ctx := context.Background()
    id, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    t0 := timeutil.Unix(1603926294, 0)
    lic1M := (&licenseccl.License{ClusterID: []uuid.UUID{id},
                                Type: licenseccl.License_Enterprise,
                                ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix()},).Encode()
    lic2M := (&licenseccl.License{ClusterID: []uuid.UUID{id},
                                Type: licenseccl.License_Evaluation,
                                ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix()},).Encode()
    lic0M := (&licenseccl.License{ClusterID: []uuid.UUID{id},
                                Type: licenseccl.License_Evaluation,
                                ValidUntilUnixSec: t0.AddDate(0, 0, 0).Unix()},).Encode()
    licExpired := (&licenseccl.License{ClusterID: []uuid.UUID{id},
                                        Type: licenseccl.License_Evaluation,
                                        ValidUntilUnixSec: t0.AddDate(0, -1, 0).Unix()},)
st := cluster.MakeTestingClusterSettings()
updater := st.MakeUpdater()

for _, tc := range []struct {
  desc     string
  lic      string
  ttlHours float64
} {
  "One Month", lic1M, 24 * 31],
  "Two Month", lic2M, 24*31 + 24*30],
  "Zero Month", lic0M, 0],
  "Expired", licExpired, -24 * 30],
  "No License", "", 0],
} {
  t.Run(tc.desc, func(t *testing.T) {
    if err := updater.Set(ctx, "enterprise.license", tc.lic, "s"); err != nil {
      t.Fatal(err)
    }
    actual, err := TimeToEnterpriseLicenseExpiry(context.Background(), st, t0)
    if err != nil {
      t.Fatal(err)
    }
    require.Equal(t, tc.ttlHours, actual.Hours())
  })
}

func TestApplyTenantLicenseWithLicense(t *testing.T) {
  license, _ := (&licenseccl.License{
    Type: licenseccl.License_Enterprise,
  }).Encode()

deferr TestingDisableEnterprise()

deferr envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", license)()

  settings := cluster.MakeClusterSettings()

  require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.NoError(t, ApplyTenantLicense())
  require.NoError(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
  require.True(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
}
func TestApplyTenantLicenseWithoutLicense(t *testing.T) {
    defer TestingDisableEnterprise()

    settings := cluster.MakeClusterSettings()
    _, ok := envutil.EnvString("COCKROACH_TENANT_LICENSE", 0)
    envutil.ClearEnvCache()
    require.False(t, ok)
    require.NoError(t, ApplyTenantLicense())
    require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", "")
    require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", ""))
    require.NoError(t, ApplyTenantLicense())
    require.Error(t, CheckEnterpriseEnabled(settings, uuid.MakeV4(), "", "")
    require.False(t, IsEnterpriseEnabled(settings, uuid.MakeV4(), "", "")
}

func TestApplyTenantLicenseWithInvalidLicense(t *testing.T) {
    defer envutil.TestSetEnv(t, "COCKROACH_TENANT_LICENSE", "THIS IS NOT A VALID LICENSE")()
    require.Error(t, ApplyTenantLicense())
}

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DISCLAIMER
package licenseccl

import (    "encoding/base64"    "strings"    "github.com/cockroachdb/cockroach/pkg/util/protoutil"    "github.com/cockroachdb/errors"
)

// LicensePrefix is a prefix on license strings to make them easily recognized.    const LicensePrefix = "crl-0-"        // Encode serializes the License as a base64 string.    func (l *License) Encode() (string, error) {        bytes, err := protoutil.Marshal(l)        if err != nil {            return "", err        }        return LicensePrefix + base64.RawStdEncoding.EncodeToString(bytes), nil    }

// Decode attempts to read a base64 encoded License.    func Decode(s string) (*License, error) {        if s == "" {            return nil, nil        }

        if !strings.HasPrefix(s, LicensePrefix) {            return nil, errors.New("invalid license string")        }

        s = strings.TrimPrefix(s, LicensePrefix)    return
data, err := base64.RawStdEncoding.DecodeString(s)
if err != nil {
    return nil, errors.Wrapf(err, "invalid license string")
}
var lic License
if err := protoutil.Unmarshal(data, &lic); err != nil {
    return nil, errors.Wrap(err, "invalid license string")
}
return &lic, nil

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//the License. You may obtain a copy of the License at
//
//https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

@require '~styl/base/palette.styl'

.need-license
    padding-left 70px
    padding-right 70px
    padding-top 70px
    padding-bottom 30px

.need-license-blurb
    margin-bottom 30px
    display flex
    justify-content space-between
    align-items flex-start

a
    color $link-color
    text-decoration none

.&__header
    text-transform none
    letter-spacing normal

.&__text
    margin-top 20px
    width 470px
    line-height 26px

.&__trial-link
    font-size 16px
    border 1px solid $button-border-color
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Portions of the client are based on code at:
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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
Entity

// no documentation yet
Account *Account `json:"account,omitempy" xmlrpc:"account,omitempy"

// no documentation yet
AccountId *int `json:"accountId,omitempy" xmlrpc:"accountId,omitempy"

// no documentation yet
EnabledFlag *bool `json:"enabledFlag,omitempy" xmlrpc:"enabledFlag,omitempy"

// no documentation yet
Id *int `json:"id,omitempy" xmlrpc:"id,omitempy"

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempy" xmlrpc:"type,omitempy"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempy" xmlrpc:"workloadTypeId,omitempy"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempy" xmlrpc:"id,omitempy"

    // no documentation yet
    KeyName *string `json:"keyName,omitempy" xmlrpc:"keyName,omitempy"

    // no documentation yet
    Name *string `json:"name,omitempy" xmlrpc:"name,omitempy"
}

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 https://github.com/google/go-github/ and
 https://github.com/digitalocean/godo

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

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>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e
>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbbfddde055a7b9e3ce271cfd83ec
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>>> docker_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd
>>> docker_libtrust-9c6bda1374f46905c68a4eb3694aa130610ad62a
>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c36fa47
>>> go-openapi_errors-fc3f73a224499b0b047eda7191ed522e1e9631e86f
>>> go-openapi_isonpointer-779f45308c19820f1a69e9a4c965f496e0da10f
>>> go-openapi_isonreference-36d33bfe519efa65632669801b180bfa245da3b
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>>> go-openapi_swag-96d7b9a9d181a1735a1c9a8c9714f2b32bf56c9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
>>> go_compute_metadata-cd0da878e66091060d2e7403ab62d192b3e387e0
>>> go_internal-cd0da878e66091060d2e7403ab62d192b3e387e0
>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5070998
>>> golang_groupcache_rtu-72d04f9fced7c3821820cc4af6f150eae553639a
>>> govmoni-v.0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf410948350a0d466e066a3a90a80
>>> oxtocart/bpool-4e1c5567d7c2dd59fa4c7843d3c2f52b025d6
>>> syncutil_singleflight-7ce0f8ca145dbe066a127c44780ee9714f3cfe4f9
>>> vdemeeister_shakers-24df71da71aa5d9cbe7390e4af66b7ef9e1b3
>>> vishvananda_netlink-482f7a52b758233521878c6b5c904b6bd6f33457
>>> vishvananda_netns-v6-604eaf189ee8678d147fcac28def2394e878d25
>>> vishvananda_netns-v6-604eaf189ee8678d147fcac28def2394e878d25
>>> vishvananda_netns-v6-604eaf189ee8678d147fcac28def2394e878d25
>>> yaml_v2-4c78e975fe7c825c6d1466c42be594d1d6f3aba6

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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ad624b5c4c1bf8de730a9a4f878ffe2d
>>> api_compute_v1-1f62a42628a06502b9c280f5d93b57e893999b5
>>> api_gensupport-1f62a42628a06502b9c280f5d93b57e893999b5
>>> api_googleapi-1f62a42628a06502b9c280f5d93b57e893999b5
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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dd600f2
>>> asaskevich_govendor-9699a6b383bee20e2dc3fe899ec6f6765395e96
>>> azure_go-ansistern-70b2c90b260171e829f1ebed7c17f600c11858d8
>>> boltdb_bolt-b514920f8f20a68f857e5a12c77f4385a59eaf9
>>> cenkalit_backoff-b02f2bbce11d7e6a97b28e1f771b0fe2f65f3
>>> client9_misspell-9a1fc2456ac9e89cb4e9d005b6e7adac0d357f
>>> codegangsta/inject-33e0a1cb7c019cc3fe049a8262a6403d30504
>>> codegangsta_clsi-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de45f7c74868daf9b202a3c8be315aaa
>>> d2g_dhcp4-40e4d29ff0231d36e4250b2ed9ff08412584bca
>>> deckarep_golang-set-1f0f4ff83d3fe89328522993ce71c35890f67554
>>> dustin_go-humanize-2592da102b871d17f30e3cd9881a642961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4b5d9a59d8e7e673d24bc54ec73c31810dd
>>> gizak_termui-798ff9ebbe4073fe1f88e6069ca4a2c6aa676b

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Go support for leveled logs, analogous to https://code.google.com/go/google-glog

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goole-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5\examples\compute.go

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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```plaintext
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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2
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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172e6

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8
tomb - support for clean goroutine termination in Go.

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>>> urfave_cli_v1-0bdeddeeb0f650497d603c4ad7b20cfe685682f6

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>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbbc2b921

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>>> x_text_language-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebed

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/third_party/moduleloader/

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Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.

It is designed to run only on the instance of godoc that serves golang.org.

package short

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868.tar
tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868\godoc\static\jquery.treeview.js

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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
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
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5.3.28\src\crypto\mersenne\mt19937db.c

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For the verification of the code, its output sequence file
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5.3.28\src\crypto\rijndael\rijndael-alg-fst.c

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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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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Written by Gary V. Vaughan, 2004

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Written by Carlos O'Donell <carlos@codesourcery.com>

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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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SYN signatures. Those signatures work for SYN packets only (duh!).

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>>> linux-esx-4.9.154-1.ph2

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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line - read one line


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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate /etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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// Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
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Heavily modified for GnuPG by Werner Koch

/ 

/ This module is part of the cryptlib continuously seeded pseudorandom 
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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
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with and without prediction resistance

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Factoring with Pollard’s rho method.


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Bison implementation for Yacc-like parsers in C


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Test Socket Type

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<one line to give the library's name and a brief idea of what it does.>
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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.
Ty Coon, President of Vice

That's all there is to it!

-------------- SECTION 5: GNU Lesser General Public License, V2.1 -----------

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Version 2.1, February 1999

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".
The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:
a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.


The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

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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
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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 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:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
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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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--------------- SECTION 7: Mozilla Public License, V2.0 ------------

Mozilla Public License

Version 2.0

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Version 1.1 - 26 February 2007
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jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
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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
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snezec, 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
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznick
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:

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
1.876 python-requests 2.11.1

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine
import {
  "bytes"
  "encoding/json"
  "strings"
  "testing"
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
  "gotest.tools/v3/assert"
} is "gotest.tools/v3/assert/cmp"

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
  context formatter.Context
  expected string
}
  // errors
}
formatter.Context{Format: "{{InvalidFunction}}"},
	Template parsing error: template: :1: function "InvalidFunction" not defined
,
},
{
formatter.Context{Format: "{{nil}}"},
	Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
	NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
	1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
	OWNER
owner1
owner2
,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
	OWNER
owner1
owner2
,
},
// Raw Format
{
	license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

,
 },
{ formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
 'license: id1
license: id2
 ',
},
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
 'owner1
owner2
 ',
},
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
}
out := &bytes.Buffer {}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
ComponentsString: "compstring",
},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
}
Expires: &expiration,
PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
},
},
ComponentsString: "compstring",
},
}

expectedJSONs := []map[string]interface{}{
{
 "Owner": "owner1",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id1",
 "Start": nil,
 "Name": "name1",
 "Num": float64(1),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name": "nodes",
 "value": float64(10),
 },
 },
 "ProductoID": "productid1",
 "ProductRatePlan": "",
 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
 },
{
 "Owner": "owner2",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": "",
 "Eusa": nil,
 "ID": "id2",
 "Start": nil,
 "Name": "name2",
 "Num": float64(2),
 "PricingComponents": []interface{}{
 map[string]interface{}{
 "name": "nodes",
 "value": float64(20),
 },

Open Source Used In IOS XR Software 7.7.1 13538
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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return nil, err
}

return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *Client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, err
    }

    return license, nil
}
return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
}, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

er = json.Unmarshal(payload, &checkRes)
if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
  return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
  })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
  for _, publicKey := range c.publicKeys {
    if key.KeyID() == publicKey.KeyID() {
      return true
    }
  }
  return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
  decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
  if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
      "key_id": license.KeyID,
    }, "decoding license authorization failed")
  }
  return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.
// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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    }
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    }
    return true, ""
}

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package engine

import (
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}
            name: {{.Name}}
            owner: {{.Owner}}
            components: {{.ComponentsString}}
        }
        return formatter.Format(source)
    }

    // SubscriptionsWrite writes the context
    func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
        render := func(format func(subContext formatter.SubContext) error) error {
            for _, sub := range subs {
                licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
                if err := format(licenseCtx); err != nil {
                    return err
                }
            }
            return nil
        }

        licenseCtx := licenseContext{
            licenseCtx.Header = map[string]string{
                "Num":               numHeader,
                "Owner":             ownerHeader,
                "Name":              licenseNameHeader,
                "ID":                idHeader,
                "DockerID":          dockerIDHeader,
                "ProductID":         productIDHeader,
                "ProductRatePlan":   productRatePlanHeader,
                "ProductRatePlanID": productRatePlanIDHeader,
                "Start":             startHeader,
                "Expires":           expiresHeader,
                "State":             stateHeader,
                "Eusa":              eusaHeader,
                "ComponentsString":  pricingComponentsHeader,
            }
            return ctx.Write(&licenseCtx, render)
        }
        return nil
    }
}
type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.
1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <bj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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40. [43]Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling

45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrappole@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Pietro Brooks <PIETRO.BROOKS@CL.CAM.AC.UK> Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snmp
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagene.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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Casey Crellin <casey@cs.c.co.za> vxWorks (Tornado) port and help with target configuration
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Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver
Frank Kardel <mailto:%7ekardel@ntp.org> PARSE (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>ntpq</tt> to comply with NTPV4 specification, <tt>ntpq saveconfig</tt>
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Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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1.887 pcre 8.39 12
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1.888 flex 2.6.0

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Metadata-Version: 1.1
Name: flex
Version: 2.6.0
Summary: Swagger Schema validation.
Home-page: https://github.com/pipermerriam/flex
Author: Piper Merriam
Author-email: pipermerriam@gmail.com
License: BSD
Description: # FLEX

[![Build Status](https://travis-ci.org/pipermerriam/flex.png)](https://travis-ci.org/pipermerriam/flex)
[![PyPi version](https://pypip.in/v/flex/swagger.png)](https://pypi.python.org/pypi/flex)
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Validation tooling for [Swagger 2.0](https://github.com/wordnik/swagger-spec/blob/master/versions/2.0.md) specifications.

[Documentation on ReadTheDocs](http://flex-swagger.readthedocs.org/en/latest/)
## Features

* Validate swagger schemas.
* JSON Schema Validation
* Validation of request/response objects against schema.
* Command Line interface.

Keywords: rest swagger
Platform: UNKNOWN
Classifier: Development Status :: 2 - Pre-Alpha
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

Found in path(s):

* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex-2.6.0-py2.7.egg-info/PKG-INFO
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* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex/compat/validate_email.py

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1.889 go-capability
0.0+gitAUTOINC+2c00daeb6c

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1.890 pcre 8.35

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1.892 libvirt 6.1.0

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1.894 python-setuptools 56.0.0

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```
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```

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1.905 tdb 1.44.5
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install
install-shlibs-strip:: install-shlibs

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

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

This package was added to the e2fsprogs debian source package by Theodore Ts'o <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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Theodore Ts'o
23-June-2007

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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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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1.923 libdevmapper 1.02.149

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Version 2.1, February 1999

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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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Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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

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

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

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

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

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

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

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

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1.927 libnsl 2.24

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Version 2.1, February 1999

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1.931 gdb 7.8

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#ifndef X86_BSD_NAT_H
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#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;

    public:
    #ifdef HAVE_PT_GETDBREGS
        void mourn_inferior () override
        {
            x86_cleanup_dregs ();
            base_class::mourn_inferior ();
        }
    #endif
};
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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Local Variables:
ispell-local-pdict: "ispell-dict"
End:
/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
   int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
   int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
   public:

   void fetch_registers (struct regcache *regcache, int regnum) override
   { amd64bsd_fetch_inferior_registers (regcache, regnum); }

   void store_registers (struct regcache *regcache, int regnum) override
   { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

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/* Native-dependent code for modern i386 BSD's.

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/i386 target. */
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ i386bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat */

/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"     /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
```c
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif
#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the 
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm 
   target currently doesn't export any view of the running processes, 
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */
static const target_info bsd_kvm_target_info = {
   "kvm",
   N_("Kernel memory interface"),
   N_("Use a kernel virtual memory image as a target.
   Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public process_stratum_target
{
   public:
      bsd_kvm_target () = default;

      const target_info &info () const override
      { return bsd_kvm_target_info; }

      void close () override;

      void fetch_registers (struct regcache *, int) override;
      enum target_xfer_status xfer_partial (enum target_object object, 
      const char *annex,
```
gdb_byte *readbuf,
const gdb_byte *writebuf,
ULONGEST offset, ULONGEST len,
ULONGEST *xferred_len) override;

void files_info () override;
bool thread_alive (ptid_t ptid) override;
const char *pid_to_str (ptid_t) override;

bool has_memory () override { return true; }
bool has_stack () override { return true; }
bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
            filename = temp;
        }
    }
    execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s"), errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning (("%s"), kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

if (ret < 0)
    return TARGET_XFER_E_IO;
else if (ret == 0)
    return TARGET_XFER_EOF;
else
{
    *xfered_len = (ULONGEST) ret;
    return TARGET_XFER_OK;
}
}

default:
    return TARGET_XFER_E_IO;
}

void
bsd_kvm_target::files_info ()
{
if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
    printf_filtered (_("Using the kernel crash dump %s\n"),
        bsd_kvm_corefile);
else
    printf_filtered (_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
struct pcb pcb;

if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error (("%s"), kvm_geterr (core_kd));

gdb_assert (bsd_kvm_supply_pcb);
return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
struct nlist nl[2];
if (bsd_kvm_paddr)
{
    bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
    return;
}

/* On dumping core, BSD kernels store the faulting context (PCB)
in the variable "dumppcb". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    /* Found dumppcb. If it contains a valid context, return
     immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
        return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s");
#ifdef HAVE_STRUCT_THREAD_TD_PCB

    if (nl[0].n_value != 0)
    {  
        struct pcb *paddr;

        /* Found thread0. */
        nl[0].n_value += offsetof (struct thread, td_pcb);
        if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
            error ("%s");

        bsd_kvm_fetch_pcb (regcache, paddr);
        return;
    }
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#endif HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));
addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
addr += offsetof (struct lwp, l_addr);
#else
addr += offsetof (struct proc, p_addr);
#endif
if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
  error ("%s"), kvm_geterr (core_kd));
target_fetch_registers (get_current_regcache (), -1);
reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif
static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
  if (arg == NULL)
    error_no_arg (_("pcb address"));
  if (core_kd == NULL)
    error (_("No kernel memory image."));
  bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);
target_fetch_registers (get_current_regcache (), -1);
reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
  return true;
}
const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
  static char buf[64];
xsnprintf (buf, sizeof buf, "<kvm>");
/* Add the libkvm interface to the list of all possible targets and register CUPPLY_PCB as the architecture-specific process control block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, 
    "Generic command for manipulating the kernel memory interface.",
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        "Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
        "Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);

} BEGIN{
    FS="";
    print "/* ==> Do not modify this file!! -*- buffer-read-only: t -*- vi"
    "*:set ro:"

print " It is created automatically by copying.awk.;";
print " Modify copying.awk instead. <= *)/;"
print ""
print "#include "defs.h"
print "#include "command.h"
print "#include "gdbcmd.h"
print ""
print "static void show_copying_command (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void":
print "show_copying_command (const char *ignore, int from_tty);"
print "{";
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty[ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered ("\n\n\n\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty[ ]*$/)
{
  printf " printf_filtered ("\n  for (i = 1; i < NF; i++)
printf "\%s\n", $i;
  printf "\%s\n\n\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty[ ]*$/
print "};"
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print "  add_cmd ("copying", no_set_class, show_copying_command,"");
print "  (_("Conditions for redistributing copies of GDB."),");
print "  &showlist);";
print "  add_cmd ("warranty", no_set_class, show_warranty_command,");
print "  (_("Various kinds of warranty you do not have."),");
print "  &showlist);";
print "};
/* For old-timers, allow "info copying", etc. */
print "  add_info ("copying", show_copying_command,"");
print "  (_("Conditions for redistributing copies of GDB."));";
print "  add_info ("warranty", show_warranty_command,");
print "  (_("Various kinds of warranty you do not have."));";
print " });
}

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product received by a particular user, "normally used" refers to a
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of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

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

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part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
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Also add information on how to contact you by electronic and paper mail.

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

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the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

#!/usr/bin/env python

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.
    Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
relpath = "%s/%s" % (root, filename)
if (filename in EXCLUDE_ALL_LIST
    or relpath in EXCLUDE_LIST
    or relpath in NOT_FSF_LIST
    or relpath in BY_HAND):
    # Ignore this file.
    pass
else:
    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
        stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith("\n"):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
if may_have_copyright_notice(filename):
    print line
else:
    # Unrecognized file format. !?!
    print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice."

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root directory.

    The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...
    """

    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""

    if not os.path.isfile("gnulib/import/extra/update-copyright"): print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
if MULTIPLE_COPYRIGHT_HEADERS:
    print
    print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
    for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
           "\033[0m"
    for filename in BY_HAND:
        print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib/import'  
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(. 
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h"
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emu_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emu_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emu_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/emu-cache.h", "sim/ppc/emu-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/emu-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/emu-cache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emu_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/emu-semantics.c",
"sim/ppc/emu_bugapi.c", "sim/ppc/device.c", "sim/ppc/emu_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/fc.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emu_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/emu-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/emu-itable.c", "sim/ppc/emu_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == '__main__':
    main()

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1.936 golang-genproto 0.0.0-20190819201941-24fa4b261c55

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1.937 sshpass 1.06-r0

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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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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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Gocheck - A rich testing framework for Go

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metrics from the pseudo-filesystem proc.

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1.941 mitchellh-cli 1.1.0

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

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
  and contributed to many of the changes for version 3.0.0. He also provided
  the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
  Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
  test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
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1.951 jinja2 2.11.3
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
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License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`_

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
    <ul>
    {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
    {% endfor %}
    </ul>
    {% endblock %}

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
import io
import re
from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
)
1.952 nanopb 1.14.1

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1.953 xdg-user-dirs 0.17 2
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1.955 cpp 8.3.0-1

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

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* Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.),
* Mark Adler (inflate, explode, funzip),
* Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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

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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.

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Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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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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@end subheading END OF TERMS AND CONDITIONS

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@subheading How to Apply These Terms to Your New Libraries

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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to 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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+++++++++++++++ 

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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1.966 gdb 7.3.1

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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.

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

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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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:

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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.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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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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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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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 \texttt{Lesser General Public License} because it does \texttt{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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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
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application-supplied function or table used by this function must
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root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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
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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
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Accompany the work with the complete corresponding
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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
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Library will not necessarily be able to recompile the application
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Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

Accompany the work with a written offer, valid for at
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under certain conditions; type `show c' for details.
@end smallexample

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@end example

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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.

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 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
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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.

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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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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>.,"
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  File::Temp: 0.15
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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
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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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=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;
nuse Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {

is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.989 digineo-go-logwrap 0.0.0-
20181106161722-a178c58ea3f0
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1.990 coreutils 8.31 r0
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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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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context formatter.Context
    expected string
}
// Errors
{
    formatter.Context{Format: "{{{InvalidFunction}}}"},
    "Template parsing error: template: :1: function "InvalidFunction" not defined",
},
{
    formatter.Context{Format: "{{nil}}"},
    "Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command",
},
}
### Table format

```go
formatter.Context{Format: NewSubscriptionsFormat("table", false)},

<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>
```

### Raw Format

```go

<table>
<thead>
<tr>
<th>license: id1</th>
<th>name: name1</th>
<th>owner: owner1</th>
<th>components: compstring</th>
</tr>
</thead>
<tbody>
<tr>
<td>license: id2</td>
<td>name: name2</td>
<td>owner: owner2</td>
<td>components: compstring</td>
</tr>
</tbody>
</table>
```

### Table with owner information

```go
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},

<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>
```

```go
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},

<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>
```

### Raw Format with owner information

```go

<table>
<thead>
<tr>
<th>license: id1</th>
<th>name: name1</th>
<th>owner: owner1</th>
<th>components: compstring</th>
</tr>
</thead>
<tbody>
<tr>
<td>license: id2</td>
<td>name: name2</td>
<td>owner: owner2</td>
<td>components: compstring</td>
</tr>
</tbody>
</table>
```

```go
formatter.Context{Format: NewSubscriptionsFormat("raw", true)},

<table>
<thead>
<tr>
<th>license: id1</th>
<th>license: id2</th>
</tr>
</thead>
</table>
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            {
                Num: 2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID: "id2",
                    Name: "name2",
                    ProductID: "productid2",
                    Expires: &expiration,
                    PricingComponents: model.PricingComponents{
                        &model.SubscriptionPricingComponent{
                            Name: "nodes",
                            Value: 20,
                        },
                    },
                    ComponentsString: "compstring",
                },
            }
        }
    }
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:  1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
            },
            ComponentsString: "compstring",
        },
        {
            Num:  2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
            },
            ComponentsString: "compstring",
        },
    }
}

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expectedJSONs := []map[string]interface{}{
    {
        "Owner":            "owner1",
        "ComponentsString": "compstring",
        "Expires":          "2020-01-01T10:00:00Z",
        "DockerID":         "",
        "Eusa":             nil,
        "ID":               "id1",
        "Start":            nil,
        "Name":             "name1",
        "Num":              float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name":  "nodes",
                "value": float64(10),
            },
        },
        "ProductID":         "productid1",
        "ProductRatePlan":   "",
        "ProductRatePlanID": "",
        "State":             "",
        "Summary":           "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
    },
    {
        "Owner":            "owner2",
        "ComponentsString": "compstring",
        "Expires":          "2020-01-01T10:00:00Z",
        "DockerID":         "",
        "Eusa":             nil,
        "ID":               "id2",
        "Start":            nil,
        "Name":             "name2",
        "Num":              float64(2),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name":  "nodes",
                "value": float64(20),
            },
        },
        "ProductID":         "productid2",
        "ProductRatePlan":   "",
        "ProductRatePlanID": "",
        "State":             "",
        "Summary":           "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
    },
}

out := &bytes.Buffer{} 
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions) 
if err != nil { 
t.Fatal(err) 
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") { 
var m map[string]interface{} 
if err := json.Unmarshal([]byte(line), &m); err != nil { 
t.Fatal(err) 
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m)) 
}

func TestSubscriptionContextWriteJSONField(t *testing.T) { 
subscriptions := []licenseutils.LicenseDisplay{ 
{Num: 1, Owner: "owner1"}, 
{Num: 2, Owner: "owner2"}, 
} 
out := &bytes.Buffer{} 
if err != nil { 
t.Fatal(err) 
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") { 
var s string 
if err := json.Unmarshal([]byte(line), &s); err != nil { 
t.Fatal(err) 
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s)) 
}
}

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package engine

import (  
"time"

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)

const (
defaultSubscriptionsTableFormat = "table
{{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
        return formatter.Format(source)
    }

    // SubscriptionsWrite writes the context
    func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
        render := func(format func(subContext formatter.SubContext) error) error {
            for _, sub := range subs {
                licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
                if err := format(licenseCtx); err != nil {
                    return err
                }
            }
            return nil
        }
        licenseCtx := licenseContext{}
    }
licenseCtx.Header = map[string]string{
    "Num":               numHeader,
    "Owner":             ownerHeader,
    "Name":              licenseNameHeader,
    "ID":                idHeader,
    "DockerID":          dockerIDHeader,
    "ProductID":         productIDHeader,
    "ProductRatePlan":   productRatePlanHeader,
    "ProductRatePlanID": productRatePlanIDHeader,
    "Start":             startHeader,
    "Expires":           expiresHeader,
    "State":             stateHeader,
    "Eusa":              eusaHeader,
    "ComponentsString":  pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}
func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter
    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}
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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }
}
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }

    return license, nil
}
checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed // json blob.

type CheckResponse struct {
    Expiration   time.Time `json:"expiration"
    Token        string    `json:"token"
    MaxEngines   int       `json:"maxEngines"
    ScanningEnabled bool    `json:"scanningEnabled"
    Type         string    `json:"licenseType"
}
Tier string `json:"tier"`

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"`
    PrivateKey string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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1.1000 zlib 1.2.11.1

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1.1002 coreutils 8.31

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### 1.1003 qemu 1.5.3

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its purpose remains meaningful.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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  *
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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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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

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1.1034 python 3.7.6

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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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 *
 * Xlib Extension-Writing Utilities
 *
 * This package contains utilities for writing the client API for various
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 *
 * Routines include:
 *
 * XextCreateExtension called once per extension
 * XextDestroyExtension if no longer using extension
 * XextAddDisplay add another display
 * XextRemoveDisplay remove a display
 * XextFindDisplay is a display open
 *
 * In addition, the following Xlib-style interfaces are provided:
 *
 * XSetExtensionErrorHandler establish an extension error handler
 * XMissingExtension raise an error about missing ext
 */
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*/opt/ws_local/PERMITS_SQL/1064544698_1593323142.55/0/openinkpot-archive-iplinux-libxext-xf86-4-4-99-1-0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d-tar-gz/src/XEVI.c
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/*

* $Xorg: XShape.c,v 1.4 2001/02/09 02:03:49 xorgcvs Exp $
*
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* 
* Author: Keith Packard, MIT X Consortium
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/*
* $Xorg: XMultibuf.c,v 1.6 2001/02/09 02:03:49 xorgcvs Exp $
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* 
* Authors: Jim Fulton, MIT X Consortium
*/

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* /opt/ws_local/PERMITS_SQL/1064544698_1593323142.55/0/openinkpot-archive-iplinux-libxext-xf86-4-4-99-1-0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d/src/XAppgroup.c

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0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d/src/XTestExt1.c
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" $Xorg: Xmbuf.man,v 1.3 2000/08/17 19:41:54 cpqbld Exp $
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1.1040 urllib3 1.23

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFQB6/>
  * 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@ibofo.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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `utilselectors_fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

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

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1.1042 tini 0.18.0-r0

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1.1043 go 1.14.15

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1.1048 iputils-s20190709-r0.src.rpm

s20190709-r0

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1.1054 go.uber.org/atomi 1.6.0
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1.1055 govmomi 0.18.0
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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
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
    }

    // Continue with assignment logic...
}
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
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}

/*

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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"
}

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag
package cli

import (
    "flag"
)

var featureUsage = []byte(
    "Usage: license.ls [flags]
    Flags:
    -f, --feature string
        
        The feature name to filter the list by.
    
"
)

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *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 (cmd *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 (cmd *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))
}

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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/vim25/types"

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{ })
}

func (cmd *add) 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 *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
}
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)
    }

    result = append(result, license)
    return cmd.WriteResult(licenseOutput(result))
}
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)
}

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()
    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)
    }
    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()
err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
derf 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, info.LicenseKey)
}
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 simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",}
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
    
  }
  
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
    
  }
  
}


type LicenseManager struct {
  mo.LicenseManager
}  

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
  m.Self = ref
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{
    }
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }
}
m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    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

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
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)
        }

        return nil
    }
if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))

# People who can (and typically have) contributed to this repository.
#
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#

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*/

package license

import (  
    "context"  
    "strconv"  
    "strings"  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/types"  
)

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 {
    var 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
}
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:     mapToKeySlice(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

    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, ":")

    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 {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        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
}

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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 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 {
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
}

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"

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    /*
    */
type assigned struct {
  *flags.ClientFlag
  *flags.OutputFlag

  id string
}

func init() {
  cli.Register("license.assigned.ls", &assigned{})
}

cmd := &assigned{}
cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
}

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
}

f.StringVar(&cmd.id, "id", "", "Entity ID")

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
}
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:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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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")
    }
}

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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"
}

@test "license.add" {
esx_env
  verify_evaluation
  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$\{get_key 00000-00000-00000-00000-00001 \{output\} \}
  get_property diagnostic"
  assert_equal "License is not valid for this product" "$\{get_key 00000-00000-00000-00000-00000-00002 \{output\} \}
  get_property diagnostic"
}

@test "license.remove" {
esx_env
  verify_evaluation
  run govc license.remove -json 00000-00000-00000-00000-00001
  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" "$(get_key 00000-00000-00000-00000-00000 <<$output | jq -r ".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}')
}

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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
}
func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

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
}

1.1056 initrdscriptsIMA 1.0-r0

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1.1057 adduser 3.118

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1.1059 aws-sdk-go 1.25.41

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)


func TestSubscriptionContextWrite(t *testing.T) {

cases := []struct {
    context formatter.Context
    expected string
}{
    // Errors
    {
        formatter.Context{Format: "{{InvalidFunction}}"},
        `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
    },
    {
        formatter.Context{Format: "{{nil}}"},
        `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
    },
    // Table format
    {
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        `NUM                 OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring
`,
    },
    {
        formatter.Context{Format: NewSubscriptionsFormat("table", true)},
        `1:License Name: name1	Quantity: 10 nodes	Expiration date: 2020-01-01
2:License Name: name2	Quantity: 20 nodes	Expiration date: 2020-01-01
`,
    },
    {
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
        `OWNER
owner1
owner2
`,
    },
    {
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
        `OWNER
owner1
owner2
`,
    },
    // Raw Format
    {
        `license: id1
`,
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

```
```
```
```
```
```
```
// Custom Format
```
```
```
```
```
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
```
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
  ID: "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    model.SubscriptionPricingComponent{
      Name: "nodes",
      Value: 20,
    },
    }
  },
  ComponentsString: "compstring",
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
  {
    Num: 1,
    Owner: "owner1",
    Subscription: model.Subscription{
      ID: "id1",
      Name: "name1",
      ProductID: "productid1",
      Expires: &expiration,
      PricingComponents: model.PricingComponents{
        model.SubscriptionPricingComponent{
          Name: "nodes",
          Value: 10,
        },
        }
      },
      ComponentsString: "compstring",
    }
  }
}
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface {}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface {}{
map[string]interface {}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
}
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}

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package licensing

import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"

    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"
)
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf(`/api/billing/v4/subscriptions/%s/license-file`, subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }

    return decoded, nil
}
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}


// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
  formatter.HeaderContext
  trunc bool
  l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
  return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
  return c.l.Num
}

func (c *licenseContext) Owner() string {
  return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
  return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
  return c.l.String()
}

func (c *licenseContext) Name() string {
  return c.l.Name
}

func (c *licenseContext) ID() string {
  return c.l.ID
}

func (c *licenseContext) DockerID() string {
  return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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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
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
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Bostley, P.J.
Bowes, Keith
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Brantley, Michael
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ek, Vtcslav
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Miller, Todd C.
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Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
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1.1076 slang 2.3

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EJS - Embedded JavaScript

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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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(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.

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

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

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
Open Source Used in IOS XR Software 7.7.1

Based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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@center @b{NO WARRANTY}

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

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

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

Signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written]
Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

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merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data
Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice
appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission
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as well as in the documentation associated with the Data File(s) or Software that the data or software has been
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promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the
copyright holder.
Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
 AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake
Legal Issues about Contributing Code to GNUlast updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though
these laws are wrong when they stop people from sharing generally
useful published information such as software, because we are in the
public eye. We also use copyright to defend users' freedom, by means
of copyleft (though this does not excuse copyright law for helping
to make software proprietary).

This means that if you want to contribute software to GNU, you have to
do something to give us legal permission to use it. There are three
ways this can be done:

* Assign the copyright to the Free Software Foundation.
This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU
GPL. (This alternative is too impractical for contributions to a
preexisting FSF-copyrighted GNU program.)
* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself—as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms—for example, if someone gets a copy
from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory
if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later. The files in this directory describe the gnu/lib modules.

The following copyright notice applies to each of these description files.

Copyright (C) 2002-2019 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation gives unlimited permission to copy and/or distribute it, with or without modifications, as long as this notice is preserved.
Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

-------------------------------------------------------------
REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]
[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]
Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

-----------------------------------------------------------------------
REQUEST: SEND DISCLAIMER FORM

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes?]
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
erro        [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat       [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:
gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/dirmame.h
lib/dirmame-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirmame.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Version 3, 29 June 2007

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir='$(abs_aux_dir)'
Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same_inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
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@end example

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@example
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@var{signature of Ty Coon}, 1 April 1989
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Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

cfguare.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
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Maintainer:
all

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Files:
- tests/test-getcwd-lgpl.c
- tests/signature.h
- tests/macros.h

Depends-on:
- configure.ac:
  - Makefile.am:
    - TESTS += test-getcwd-lgpl
    - check_PROGRAMS += test-getcwd-lgpl
    - test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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1.1092 gnutls 3.5.3

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1.1094 pflag 1.0.5

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1.1105 google-cloud-go 0.75.0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,

        // BSD license, which is compatible, is embedded in the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

        "third_party/pkgsite/print_type.go": true,
    }
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }
    if skip[path] {
        return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }
    return nil
})
if err != nil {
    t.Fatal(err)
}

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**1.1109 libassuan 2.5.3**

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Version 3, 29 June 2007

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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S

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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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1.1118 python-requests 2.21.0
1.1118.1 Available under license:

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1.1119 simplejson 2.2.1
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1.1120 efibootmgr 0.12
1.1121 selinux-autorelabel 0.1-r0

1.1121.1 Available under license:

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From 7002b4e33b949b474a0ce0b78a7f2e180dbbc9bb Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Tue, 9 Feb 2021 17:31:55 +0800
Subject: [PATCH] policy/modules/system/modutils: allow kmod_t to write keys

Fixes:
kernel: cfg80211: Problem loading in-kernel X.509 certificate (-13)

avc: denied { write } for pid=219 comm="modprobe"
scontext=system_u:system_r:kmod_t tcontext=system_u:system_r:kmod_t
tclass=key permissive=0

Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
---
policy/modules/system/modutils.te | 2 ++
1 file changed, 2 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index ee249ae04..b8769bc02 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -43,6 +43,8 @@ allow kmod_t self:rawip_socket create_socket_perms;
 allow kmod_t self:lockdown confidentiality;
+allow kmod_t self:key write;
+
# Read module config and dependency information
list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)
--
2.17.1

Found in path(s):
* /opt/cola/permits/1211786582_1648307365.42/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0063-policy-modules-system-modutils-allow-kmod_t-to-write.patch
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meta-selinux
============

This layer's purpose is enabling SE Linux support.

The majority of this layers work is accomplished in bbappend files, used to enable SE Linux support in existing recipes.

A new recipes-security was added. The purpose of this category is to add software specific to system security.

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Dependencies
------------

This layer depends on the openembedded-core metadata and the meta-python and meta-oe layers from the meta-openembedded repository.

Maintenance
-----------

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Building the meta-selinux layer
-------------------------------

In order to add selinux support to the poky build this layer should be added to your projects bblayers.conf file.

By default the selinux components are disabled. This conforms to the Yocto Project compatible guideline that indicate that simply including a layer should not change the system behavior.

In order to use the components in this layer you must add the 'selinux' to the DISTRO_FEATURES. In addition to selinux, you should be sure that acl, xattr and pam are also present.

e.g. DISTRO_FEATURES_append = " acl xattr pam selinux"

You must also specify a preferred provider for the virtual/refpolicy. The included policies with this layer are simply reference policies and will need to be tailored for your environment.

* Enable the refpolicy-mls:
Using different versions of refpolicy
-------------------------------------
To prepare selinux enabled images using different ver. of refpolicy, we can choose supported releases of refpolicy refer to available versions under recipes-security/refpolicy

We can use the refpolicy directly from git repository instead of release tarballs. By default refpolicy from git builds head commit of master branch, we can update SRCREV for refpolicy and refpolicy-contrib as appropriate at refpolicy_git.inc to check refpolicy as per required commits.

* enable the preferred refpolicy-minimum:
PREFERRED_VERSION_refpolicy-minimum = "2.20151208"
PREFERRED_VERSION_refpolicy = "2.20151208"

Using different init manager
----------------------------
By default selinux enabled images coming up with "sysvinit" as init manager, we can use "systemd" as an init manager using below changes to local.conf

* enable systemd as init manager changes to local.conf
DISTRO_FEATURES_remove = "sysvinit"
DISTRO_FEATURES_append = "systemd"
VIRTUAL-RUNTIME_init_manager = "systemd"
DISTRO_FEATURES_BACKFILL_CONSIDERED = ""

Starting up the system
----------------------
Most likely the reference policy selected will not just work "out of the box".

As always, if you update the reference policy to better work with OpenEmbedded or Poky configurations, please submit the changes back to the project.

When using 'core-image-selinux', the system will boot and automatically setup the policy by running the "fixfiles -f -F relabel" for you. This is implemented via the 'selinux-autorelabel' recipe.

The 'core-image-selinux-minimal' does not automatically relabel the system. So you must boot using the parameters "selinux=1 enforcing=0", and then manually perform the setup. Running 'fixfiles -f -F relabel' is available in this configuration.

After logging in you can verify selinux is present using:
$ sestatus

Output should include:

SELinux status: enabled
...
Current mode: enforcing
...

The above indicates that selinux is currently running, and if you are running in an enforcing mode or not.

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-------

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From 1126ee6883d7e107b103a18d255416d542ca50f2 Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Mon, 24 Aug 2020 11:29:09 +0800
Subject: [PATCH] policy/modules/system/modutils: allow mod_t to access confidentiality of class lockdown

The SELinux lockdown implementation was introduced since kernel 5.6 by commit 59438b46471ae6cdfb761af8c9beaf1e428a331. We need to allow mod_t and udev_t to access confidentiality of class lockdown to mount tracefs.

Fixes:
kernel: Could not create tracefs 'iwifi_data/filter' entry
kernel: Could not create tracefs 'enable' entry
kernel: Could not create tracefs 'id' entry
kernel: Could not create tracefs 'filter' entry
kernel: Could not create tracefs 'trigger' entry
kernel: Could not create tracefs 'format' entry

audit[170]: AVC avc: denied { confidentiality } for pid=170
comm="modprobe" lockdown_reason="use of tracefs"
scontext=system_u:system_r:kmod_t:s15:c0.c1023
audit[190]: AVC avc: denied { confidentiality } for pid=190
comm="systemd-udevd" lockdown_reason="use of tracefs"
scontext=system_u:system_r:udevd_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udev_t:s0-s15:c0.c1023
tcontext=system_u:system_r:kmod_t:s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:kmod_t:s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udsf_t:s0-s15:c0.c1023

Upstream-Status: Inappropriate [embedded specific]
Signed-off-by: Yi Zhao <yi.zhao@windriver.com>

---
policy/modules/system/modutils.te | 2 +
policy/modules/system/udev.te | 2 +
2 files changed, 4 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index ef5de835e..ee249ae04 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -41,6 +41,8 @@
 allow kmod_t self:capability sys_admin;
+ allow kmod_t self:lockdown confidentiality;
+
 # Read module config and dependency information
 list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
 read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)

diff --git a/policy/modules/system/udev.te b/policy/modules/system/udev.te
index 4a2283b6c..daf64482f 100644
--- a/policy/modules/system/udev.te
+++ b/policy/modules/system/udev.te
@@ -61,6 +61,8 @@
 allow kmod_t self:udp_socket create_socket_perms;
+ allow kmod_t self:rawip_socket create_socket_perms;
+ allow kmod_t self:lockdown confidentiality;
+
 can_exec(udev_t, udev_exec_t)
 allow udev_t udev_helper_exec_t:dir list_dir_perms;

+ allow udev_t self:lockdown confidentiality;
+ can_exec(udev_t, udev_exec_t)

allow udev_t udev_helper_exec_t:dir list_dir_perms;

2.17.1

Found in path(s):
* /opt/cola/permits/1211786582_1648307365.42/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-
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# Multi-Category Security translation table for SELinux
#
#
# Objects can be categorized with 0-1023 categories defined by the admin.
# Objects can be in more than one category at a time.
# Categories are stored in the system as c0-c1023. Users can use this
# table to translate the categories into a more meaningful output.
# Examples:
# s0:c0=CompanyConfidential
# s0:c1=PatientRecord
# s0:c2=Unclassified
# s0:c3=TopSecret
# s0:c1,c3=CompanyConfidentialRedHat
s0=SystemLow
s0-s0:c0.c1023=SystemLow-SystemHigh
s0:c0.c1023=SystemHigh

Found in path(s):
* /opt/cola/permits/1211786582_1648307365.42/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar.gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/files/setrans-mcs.conf

1.1122 util-linux 2.30

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1.1123 prometheus-client 0.2.0

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1.1124 x-time-rate

18.05.0+ce+gitf150324782643a5268a04e7d1a

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1.1125 btree 1.0.0
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1.1126 cilium-ebpf 0.2.0
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1.1127 selinux-labeldev 0.1-r0

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From b3ff2e8572cd929c419775e57b547f309ba9d8fb Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Mon, 24 Aug 2020 11:29:09 +0800
Subject: [PATCH] policy/modules/system/modutils: allow mod_t to access confidentiality of class lockdown

The SELinux lockdown implementation was introduced since kernel 5.6 by commit 59438b46471ae6cdeb761af8c9beaf1e428a331. We need to allow mod_t and udev_t to access confidentiality of class lockdown to mount tracefs.

Fixes:
kernel: Could not create tracefs 'iwllwifi_data/filter' entry
kernel: Could not create tracefs 'enable' entry
kernel: Could not create tracefs 'id' entry
kernel: Could not create tracefs 'filter' entry
kernel: Could not create tracefs 'trigger' entry
kernel: Could not create tracefs 'format' entry

audit[170]: AVC avc: denied { confidentiality } for pid=170
comm="modprobe" lockdown_reason="use of tracefs"
scontext=system_u:system_r:kmod_t:s15:c0.c1023
tcontext=system_u:system_r:kmod_t:s15:c0.c1023
tclass=lockdown
permissive=0

audit[190]: AVC avc: denied { confidentiality } for pid=190
comm="systemd-udevd" lockdown_reason="use of tracefs"
scontext=system_u:system_r:udev_t:s0-s15:c0.c1023
tcontext=system_u:system_r:udev_t:s0-s15:c0.c1023
tclass=lockdown
permissive=0

Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
---
policy/modules/system/modutils.te | 2 ++
policy/modules/system/udev.te     | 2 ++
2 files changed, 4 insertions(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index b0a419dc1..5b4f0aca1 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -41,6 +41,8 @@ dontaudit kmod_t self:capability sys_admin;
 allow kmod_t self:udp_socket create_socket_perms;
 allow kmod_t self:rawip_socket create_socket_perms;
+allow kmod_t self:lockdown confidentiality;
+
 +# Read module config and dependency information
 list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
 read_files_pattern(kmod_t, modules_conf_t, modules_conf_t)

diff --git a/policy/modules/system/udev.te b/policy/modules/system/udev.te
index c50ff68c1..4c5a690fb 100644
--- a/policy/modules/system/udev.te
+++ b/policy/modules/system/udev.te
@@ -67,6 +67,8 @@ ifdef(`init_systemd',`
 # for systemd-udevd to rename interfaces
 allow udev_t self:netlink_route_socket nlmsg_write;
+
+allow udev_t self:lockdown confidentiality;
+
 can_exec(udev_t, udev_exec_t)

 allow udev_t udev_helper_exec_t:dir list_dir_perms;
--
2.17.1

Found in path(s):
* /opt/cola/permits/1211786357_1648477482.73/0/meta-selinux-master-tar-gz/meta-selinux-master/recipes-security/refpolicy/refpolicy/0034-policy-modules-system-modutils-allow-mod_t-to-access.patch
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From 8343ff97a265836ba1e1e2f4159f888c21e5cabe Mon Sep 17 00:00:00 2001
From: Yi Zhao <yi.zhao@windriver.com>
Date: Tue, 9 Feb 2021 17:31:55 +0800
Subject: [PATCH] policy/modules/system/modutils: allow kmod_t to write keys

Fixes:
kernel: cfg80211: Problem loading in-kernel X.509 certificate (-13)

cvc: denied { write } for pid=219 comm="modprobe"
scontext=system_u:system_r:kmod_t_tcontext=system_u:system_r:kmod_t
tclass=key permissive=0

Upstream-Status: Inappropriate [embedded specific]

Signed-off-by: Yi Zhao <yi.zhao@windriver.com>
---
policy/modules/system/modutils.te | 1 +
1 file changed, 1 insertion(+)

diff --git a/policy/modules/system/modutils.te b/policy/modules/system/modutils.te
index 5b4f0aca1..008f286a8 100644
--- a/policy/modules/system/modutils.te
+++ b/policy/modules/system/modutils.te
@@ -42,6 +42,7 @@
 allow kmod_t self:udp_socket create_socket_perms;
 allow kmod_t self:rawip_socket create_socket_perms;
 allow kmod_t self:lockdown confidentiality;
+allow kmod_t self:key write;

 # Read module config and dependency information
 list_dirs_pattern(kmod_t, modules_conf_t, modules_conf_t)
--

2.17.1

Found in path(s):
* /opt/cola/permits/1211786357_1648477482.73/0/meta-selinux-master-tar-gz/meta-selinux-master/recipes-security/refpolicy/refpolicy/0044-policy-modules-system-modutils-allow-kmod_t-to-write.patch
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#
# Multi-Category Security translation table for SELinux
#
#
# Objects can be categorized with 0-1023 categories defined by the admin.
# Objects can be in more than one category at a time.
# Categories are stored in the system as c0-c1023. Users can use this
# table to translate the categories into a more meaningful output.
# Examples:
# s0:c0=CompanyConfidential
# s0:c1=PatientRecord
# s0:c2=Unclassified
# s0:c3=TopSecret
# s0:c1,c3=CompanyConfidentialRedHat
s0=SystemLow
s0-s0:c0,c1023=SystemLow-SystemHigh
s0:c0,c1023=SystemHigh

Found in path(s):
* /opt/cola/permits/1211786357_1648477482.73/0/meta-selinux-master-tar-gz/meta-selinux-master/recipes-security/refpolicy/files/setrans-mcs.conf
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meta-selinux
This layer's purpose is enabling SE Linux support.

The majority of this layers work is accomplished in bbappend files, used to enable SE Linux support in existing recipes.

A new recipes-security was added. The purpose of this category is to add software specific to system security.

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Dependencies
------------

This layer depends on the openembedded-core metadata and the meta-python and meta-oe layers from the meta-openembedded repository.

Maintenance
------------

Please see the MAINTAINERS file for information on contacting the maintainers of this layer, as well as instructions for submitting patches.

Building the meta-selinux layer
-------------------------------

In order to add selinux support to the poky build this layer should be added to your projects bblayers.conf file.

By default the selinux components are disabled. This conforms to the Yocto Project compatible guideline that indicate that simply including a layer should not change the system behavior.

In order to use the components in this layer you must add the 'selinux' to the DISTRO_FEATURES. In addition to selinux, you should be sure that acl, xattr and pam are also present.

e.g. DISTRO_FEATURES:append = " acl xattr pam selinux"

You must also specify a preferred provider for the virtual/refpolicy. The included policies with this layer are simply reference policies and will need to be tailored for your environment.

* Enable the refpolicy-mls:

e.g. PREFERRED_PROVIDER_virtual/refpolicy ?= "refpolicy-mls"
Using different versions of refpolicy
-------------------------------------
To prepare selinux enabled images using different ver. of refpolicy, we can choose supported releases of refpolicy refer to available versions under recipes-security/refpolicy

We can use the refpolicy directly from git repository instead of release tarballs. By default refpolicy from git builds head commit of master branch, we can update SRCREV for refpolicy and refpolicy-contrib as appropriate at refpolicy_git.inc to check refpolicy as per required commits.

* enable the preferred refpolicy-minimum:
  PREFERRED_VERSION_refpolicy-minimum = "2.20151208"
  PREFERRED_VERSION_refpolicy = "2.20151208"

Using different init manager
----------------------------
By default selinux enabled images coming up with "sysvinit" as init manager, we can use "systemd" as an init manager using below changes to local.conf

* enable systemd as init manager changes to local.conf
  DISTRO_FEATURES:remove = "sysvinit"
  DISTRO_FEATURES:append = "systemd"
  VIRTUAL-RUNTIME_init_manager = "systemd"
  DISTRO_FEATURES_BACKFILL_CONSIDERED = ""

Starting up the system
----------------------
Most likely the reference policy selected will not just work "out of the box".

As always, if you update the reference policy to better work with OpenEmbedded or Poky configurations, please submit the changes back to the project.

When using 'core-image-selinux', the system will boot and automatically setup the policy by running the "fixfiles -f -F relabel" for you. This is implemented via the 'selinux-autorelabel' recipe.

The 'core-image-selinux-minimal' does not automatically relabel the system. So you must boot using the parameters "selinux=1 enforcing=0", and then manually perform the setup. Running 'fixfiles -f -F relabel' is available in this configuration.

After logging in you can verify selinux is present using:

$ sestatus
Output should include:
SELinux status: enabled
...
Current mode: enforcing
...

The above indicates that selinux is currently running, and if you are running in an enforcing mode or not.

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Found in path(s):
* /opt/cola/permits/1211786357_1648477482.73/0/meta-selinux-master-tar-gz/meta-selinux-master/README

1.1128 diffutils 3.7

1.1128.1 Available under license:

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```
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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
   uv__io_t event_watcher;
#define UV_IO_PRIVATE_PLATFORM_FIELDS  
  int rcount;  
  int wcount;  

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

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Files: getopt.c

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1.1144 tftp-hpa 5.2

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 *
* .......................................................... */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c
No license file was found, but licenses were detected in source scan.

/* .......................................................... */
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build
%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT} %{_bindir}
mkdir -p ${RPM_BUILD_ROOT} %{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT} %{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/ $[RPM_BUILD_ROOT]/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT} %{_sysconfdir}/xinetd.d/tftp

%post
/sbin/service xinetd reload > /dev/null 2>&1 || : 
%postun
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || : 
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{sbindir}/in.tftpd
%{mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftp.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Wed Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd
* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure
Open Source Used In IOS XR Software 7.7.1 17124

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
  * /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
    install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - `%%post` is needed by server, not client. Add `%%postun` for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove `-D_BSD_SOURCE` (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpds so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb  2 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpds should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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* /opt/cola/permit/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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1.1145 augeas 1.12.0
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Version 2.1, February 1999

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# Contributions to the urllib3 project

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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/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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  * Design review, bugfixes, test coverage.

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* IPv6 url support and test coverage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* 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

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

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

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

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

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

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

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

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

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

* John Vandenberg <jayvd@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

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

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Yoshinori K. Okuji designed and implemented the initial version.

Jeroen Dekkers added initrd support, Multiboot support, and fixed bugs in ext2fs.

Marco Gerards added ext2fs support, grub-emu, a new command-line engine, and fixed many bugs.

Omniflux added terminfo and serial support.

Vincent Pelletier added Sparc64 support.

Hollis Blanchard implemented many parts of PowerPC support.

Tomas Ebenlendr added the command chainloader into the normal mode, fixed some bugs.

Guillem Jover merged architecture-independent ELF support code.

Vesa Jaaskelainen added VBE support.

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1.1160 libnl3 3.2.25

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

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

- trivial database library - private includes
-  
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23-June-2007

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

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

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the 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>,

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from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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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 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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Gadi Oxman, August 1995

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1.1172 libssh2 1.9.0

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1.1173 libseccomp 2.3.1

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1.1175 cpio 2.13-r0

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**1.1176 lua 5.1.5**

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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.``@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
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Version 2.1, February 1999

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1.1185 uclibc 2.24

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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %(_tmppath)/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build
%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \SBINDIR=%{_sbindir} MANDIR=%{_mandir} \install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%%post is needed by server, not client. Add %%%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody
* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root
* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5WB1p56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHVAQ5/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5WB1p56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHVAQ5/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

" -*- nroff -*- --------------------------------------------------------- *
"
" Copyright (c) 1990, 1993, 1994
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" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
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" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
" SUCH DAMAGE.
"
"----------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIp56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQA5/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/*
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* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIp56C/tftp-hpa-
5.2.tar.bz2-cosi-expand-archive-eRZHvQA5/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIP56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQA5/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIP56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQA5/tftp-hpa-5.2/common/tftpsubs.c

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

%global systemctl_bin /usr/bin/systemctl
%global hardened_build 1

Summary: The client for the Trivial File Transfer Protocol (TFTP)
Name: tftp
Version: 5.2
Release: 22%{?dist}
License: BSD
Group: Applications/Internet
URL: http://www.kernel.org/pub/software/network/tftp/
Source0: http://www.kernel.org/pub/software/network/tftp-hpa/tftp-hpa-%{version}.tar.bz2
Source1: tftp.socket
Source2: tftp.service

Patch0: tftp-0.40-remap.patch
Patch2: tftp-hpa-0.39-tzfix.patch
Patch3: tftp-0.42-tftpboot.patch
Patch4: tftp-0.49-chk_retcodes.patch
Patch5: tftp-hpa-0.49-fortify-strpcpy-crash.patch
Patch6: tftp-0.49-cmd_arg.patch
Patch7: tftp-hpa-0.49-stats.patch
Patch8: tftp-hpa-5.2-pktinfo.patch
Patch9: tftp-doc.patch
Patch10: tftp-enhanced-logging.patch
Patch11: tftp-rfc7440-windowsize.patch
Patch12: tftp-rewrite-macro.patch

BuildRequires: tcp_wrappers-devel readline-devel autoconf systemd-units

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP)
Requires: systemd-units
Requires(post): systemd-units
Requires(postun): systemd-units

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed.

%prep
%setup -q -n tftp-hpa-%{version}
%patch0 -p1 -b .zero
%patch2 -p1 -b .tzfix
%patch3 -p1 -b .tftpboot
%patch4 -p1 -b .chk_retcodes
%patch5 -p1 -b .fortify-strcpy-crash
%patch6 -p1 -b .cmd_arg
%patch7 -p1 -b .stats
%patch8 -p1 -b .pktinfo
%patch9 -p1 -b .doc
%patch10 -p1 -b .logging
%patch11 -p1 -b .windowsize
%patch12 -p1 -b .rewrite-macro

%build
autoreconf
%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}/%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}/%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}/%{_sbindir}
mkdir -p ${RPM_BUILD_ROOT}/%{_localstatedir}/lib/tftpboot
mkdir -p ${RPM_BUILD_ROOT}/%{_unitdir}

make INSTALLROOT=${RPM_BUILD_ROOT} SBINDIR=%{_sbindir} MANDIR=%{_mandir}
INSTALL=install -p' install
install -m755 -d -p ${RPM_BUILD_ROOT}/%{_sysconfdir}/xinetd.d/
${RPM_BUILD_ROOT}/%{_localstatedir}/lib/tftpboot
sed -e 's:/var:%{_localstatedir}:' -e 's:/usr/sbin:%{_sbindir}:' tftp-xinetd > ${RPM_BUILD_ROOT}/%{_sysconfdir}/xinetd.d/tftp
 touch -r tftp-xinetd ${RPM_BUILD_ROOT}/%{_sysconfdir}/xinetd.d/tftp

install -p -m 644 %SOURCE1 ${RPM_BUILD_ROOT}/%{_unitdir}
install -p -m 644 %SOURCE2 ${RPM_BUILD_ROOT}/%{_unitdir}
%post server
%systemd_post tftp.socket

%preun server
%systemd_preun tftp.socket

%postun server
%systemd_postun_with_restart tftp.socket

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%doc README README.security CHANGES
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%doc README README.security CHANGES
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir %{_localstatedir}/lib/tftpd
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
%{_unitdir}/*

%changelog
* Wed Feb  7 2018 Jan Synek <jsynacek@redhat.com> - 5.2-22
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Wed Feb  7 2018 Jan Synek <jsynacek@redhat.com> - 5.2-21
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Tue Jan 23 2018 Jan Synek <jsynacek@redhat.com> - 5.2-20
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Tue Jan  9 2018 Jan Synek <jsynacek@redhat.com> - 5.2-19
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Tue Nov 28 2017 Jan Synek <jsynacek@redhat.com> - 5.2-18
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Thu Nov 16 2017 Jan Synek <jsynacek@redhat.com> - 5.2.17
  - re: implement RFC7440 TFTP Windowsize Option (#1328827)

* Mon Sep 11 2017 Jan Synek <jsynacek@redhat.com> - 5.2-16
  - inconsistent --mapfile / --map-file option spelling in manual (#1490139)
* Tue Sep  5 2017 Jan Synek <jsynacek@redhat.com> - 5.2-15
  - memory corruption in tftpd when using filename remapping (#1485943)

* Mon Aug 14 2017 Jan Synek <jsynacek@redhat.com> - 5.2-14
  - implement RFC7440 TFTP Windowsize Option (#1328827)

* Wed Mar  2 2016 Jan Synek <jsynacek@redhat.com> - 5.2-13
  - enhance in.tftpd logging capabilities (#1311092)

* Tue Apr 28 2015 Jan Synek <jsynacek@redhat.com> - 5.2-12
  - remove unnecessary installation dependency on xinetd(#1136866)
  - improve systemd unit files(#1167777)

* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 5.2-11
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 5.2-10
  - Mass rebuild 2013-12-27

* Tue Apr 23 2013 Jan Synek <jsynacek@redhat.com> - 5.2-9
  - harden the package (#955197)

* Fri Apr 19 2013 Jan Synek <jsynacek@redhat.com> - 5.2-8
  - documentation fixes

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Aug 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-6
  - add systemd-rpm macros
  - Resolves: #850338

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jul 19 2012 Jan Synek <jsynacek@redhat.com> - 5.2.4
  - make fedora-review-friendly

* Wed Jul 18 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - update spec: fix Source0

* Wed May 30 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - use systemd instead of xinetd as a default

* Tue May 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-3
  - provide native systemd service files
  - Resolves: #737212
* Wed Jan 04 2012 Jiri Skala <jskala@redhat.com> - 5.2-2
  - fixes #739534 - TFTP to an IP alias of FC15 tftp server failed

* Wed Dec 14 2011 Jiri Skala <jskala@redhat.com> - 5.2-1
  - updated to latest upstream - 5.2

* Thu Oct 06 2011 Jiri Skala <jskala@redhat.com> - 5.1-1
  - updated to latest upstream - 5.1

* Mon Jun 20 2011 Jiri Skala <jskala@redhat.com> - 0.49-9
  - fixes #714261 - CVE-2011-2199: buffer overflow when setting utimeout option

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Jiri Skala <jskala@redhat.com> - 0.49-7
  - fixes #666746 - Packaging mistake: confusing %doc files patched+unpatched
  - fixes printing statistics using -v option

* Fri May 28 2010 Jiri Skala <jskala@redhat.com> - 0.49-6
  - patched handling arguments of commands (put)

* Wed Aug 05 2009 Warren Togami <wtogami@redhat.com> - 0.49-5
  - Bug #515361 tftp FORTIFY_SOURCE strcpy crash

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Thu Jan 15 2009 Jiri Skala <jskala@redhat.com> - 0.49-2
  - #473487 - unchecked return values

* Tue Nov 25 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.49-1
  - update to 0.49

* Wed May 21 2008 Warren Togami <wtogami@redhat.com> - 0.48-6
  - undo symlink stuff completely because they are problematic
  - See Bug #447135 for details.

* Wed May 21 2008 Martin Nagy <mnagy@redhat.com> - 0.48-5
  - fix troubles caused by added symlink

* Tue May 20 2008 Martin Nagy <mnagy@redhat.com> - 0.48-4
  - add symlink to /var/lib/tftpboot

* Mon Mar 03 2008 Martin Nagy <mnagy@redhat.com> - 0.48-3
- changed description (#234099)

* Mon Feb 11 2008 Martin Nagy <mnagy@redhat.com> - 0.48-2
  - rebuild for gcc-4.3

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.48-1
  - upgrade to 0.48
  - remove the old sigjmp patch (fixed in upstream)
  - make some changes in spec file (#226489)

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.42-6
  - changed the location of tftpboot directory to /var/lib/

* Fri Aug 31 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-5
  - rebuild

* Mon Feb 19 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-4
  - make some changes in spec file (review)
  - Resolves #226489

* Mon Dec 04 2006 Maros Barabas <mbarabas@redhat.com> - 0.42-3.2
  - change BuildRequires from tcp_wrappers to tcp_wrappers-devel

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.42-3.1
  - rebuild

* Mon Apr 10 2006 Radek Vokl <rvokal@redhat.com> 0.42-3
  - show localtime instead of GMT (#172274)

* Wed Mar 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-2
  - fix double free error when hitting ^C (#186201)

* Wed Feb 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-1
  - upgrade to 0.42

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2.1
  - bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2
  - rebuilt for new gcc4.1 snapshot and glibc changes

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Thu Nov 03 2005 Radek Vokal <rvokal@redhat.com> 0.41-1
  - upstream update (patterns fixes)

* Tue Apr 19 2005 Radek Vokal <rvokal@redhat.com> 0.40-6
- fix remap rules convert error <pjones@redhat.com>

* Wed Mar 23 2005 Radek Vokal <rvokal@redhat.com> 0.40-5
- use tftp-xinetd from tarball (#143589)

* Fri Mar 04 2005 Radek Vokal <rvokal@redhat.com> 0.40-4
- gcc4 rebuilt

* Sun Feb 27 2005 Florian La Roche <laroche@redhat.com>
- Copyright: -> License

* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.40-2
- Rebuilt for new readline.

* Mon Nov 15 2004 Radek Vokal <rvokal@redhat.com> 0.40-1
- Update to new upstream version, fixes #139328

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.39-1
- Update to new version makes tftp work, says upstream.
- Remove malta patch

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.38-1
- Update to new version fixes #131736

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Thu Jun 03 2004 Elliot Lee <sopwith@redhat.com> 0.36-1
- Update version

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt
* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)  
- fixed hpa-tftpd to handle files greater than 32MB (#23725)  
- added "-l" flag to hpa-tftpd for file-logging (#26467)  
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>  
  - updated tftp client to 0.17 stable (#19640),  
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>  
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>  
  - fix to permit tftp put's (#18128).  
  - startup as root with chroot to /tftpboot with early reversion to nobody  
    is preferable to starting as nobody w/o ability to chroot.  
  - %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>  
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>  
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>  
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>  
  - update to tftp-hpa-0.14 (#14003).  
  - add server_args (#14003).  
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>  
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>  
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>  
  - FHS packaging.  
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>  
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>  
  - fix description
* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIp56C/tftp.spec
No license file was found, but licenses were detected in source scan.

/* ..* - c -*- --------------------------------------------- */
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
* ................................................................. */

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

/* ................................................................. */

* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
*
* ................................................................. */

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/tftpd/remap.c
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/tftpd/remap.h
No license file was found, but licenses were detected in source scan.

/* ................................................................. */

* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
*
* ................................................................. */

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBi56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHvQ5A5/tftp-hpa-5.2/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.

commit e46782908e7026f27ef92de52e47ec3720116125
Author: Jan Synacek <jsynacek@redhat.com>
Date:   Tue Nov 7 08:26:54 2017 +0100
implement rfc7440

diff --git a/common/Makefile b/common/Makefile
index a825213..d1e97b5 100644
--- a/common/Makefile
+++ b/common/Makefile
@@ -4,7 +4,7 @@ VERSION = $(shell cat ../version)
-include ../MCONFIG
include ../MRULES

-OBJS = tftpsubs.$(O)
+OBJS = tftpsubs.$(O) common.$(O)
LIB = libcommon.a

all: $(LIB)
@@ -14,7 +14,7 @@ $(LIB): $(OBJS)
 $(AR) $(LIB) $(OBJS)
 $(RANLIB) $(LIB)

-$$(OBJS): tftpsubs.h
+$$$(OBJS): tftpsubs.h common.h

install:

diff --git a/common/common.c b/common/common.c
new file mode 100644
index 0000000..a4e2fef
--- /dev/null
+++ b/common/common.c
@@ -0,0 +1,433 @@
+/*
+ * Copyright (c) 2017 Jan Synáek
+ * All rights reserved.
+ *
+ * Redistribution and use in source and binary forms, with or without
+ * modification, are permitted provided that the following conditions
+ * are met:
+ * 1. Redistributions of source code must retain the above copyright
+ *    notice, this list of conditions and the following disclaimer.
+ * 2. Redistributions in binary form must reproduce the above copyright
+ *    notice, this list of conditions and the following disclaimer in the
+ *    documentation and/or other materials provided with the distribution.
+ * 3. All advertising materials mentioning features or use of this software
+ *    must display the following acknowledgement:
+ * This product includes software developed by the University of
+ * California, Berkeley and its contributors.
+ * 4. Neither the name of the University nor the names of its contributors
+ * may be used to endorse or promote products derived from this software
 */

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#include <poll.h>
#include <stdarg.h>
#include <syslog.h>
#include "common.h"

static char *pktbuf;  
static int verbose;

const int SYNC_TIMEOUT = 50; /* ms */

static void die(const char *fmt, ...)
{
    va_list ap;

    va_start(ap, fmt);
    fprintf(stderr, "fatal: ");
    vfprintf(stderr, fmt, ap);
    printf("\n");
    va_end(ap);
    exit(1);
}

int format_error(struct tftphdr *tp, char *error)
{
    int r = 0;
    if (error)
        r = snprintf(error, ERROR_MAXLEN, "Error code %d: %s", ntohs(tp->th_code), tp->th_msg);
    return r;
}

void die_on_error(struct tftphdr *tp)
/*
 * Generated from Error.c
 */

char error[ERROR_MAXLEN];

snprintf(error, ERROR_MAXLEN, "Error code %d: %s", ntohs(tp->th_code), tp->th_msg);
fprintf(stderr, "%s\n", error);
exit(1);
+
+
+void send_error(int sockfd, union sock_addr *to, const char *msg)
+{
+    char buf[516];
+    struct tftphdr *out = (struct tftphdr *)buf;
+    int len;
+
+    out->th_opcode = htons(ERROR);
+    out->th_code = htons(EUNDEF);
+
+    len = strlen(msg) + 1;
+    memset(buf, 0, 516);
+    memcpy(out->th_msg, msg, len > 511 ? 511 : len);
+    len += 4;
+    
+    if (to) {
+        if (sendto(sockfd, out, len, 0, &to->sa, SOCKLEN(to)) != len)
+            die("send_error: sendto: %s", strerror(-errno));
+    } else {
+        if (send(sockfd, out, len, 0) != len)
+            die("send_error: send: %s", strerror(-errno));
+    }
+
+
+static void _send_ack(int sockfd, union sock_addr *to, unsigned short block, int check_errors)
+{
+    struct tftphdr out;
+    out.th_opcode = htons(ACK);
+    out.th_block = htons(block);
+
+    if (to) {
+        if (sendto(sockfd, &out, 4, 0, &to->sa, SOCKLEN(to)) != 4 && check_errors)
+            die("send_ack: sendto: %m");
+    } else {
+        if (send(sockfd, &out, 4, 0) != 4 && check_errors)
+            die("send_ack: send: %m");
+    }
+
+
+void send_ack(int sockfd, union sock_addr *to, unsigned short block, int check_errors)
+{
+    _send_ack(sockfd, to, block, 1);
static size_t read_data(FILE *fp, int blocksize, unsigned short block, int seek, struct tftphdr *out) {
    out->th_opcode = htons(DATA);
    out->th_block  = htons(block);
    if (seek)
        (void) fseek(fp, seek, SEEK_CUR);
    return fread(pktbuf + 4, 1, blocksize, fp);
}

static size_t write_data(FILE *fp, char *buf, size_t count, int convert) {
    char wbuf[count];
    size_t i = 0, cnt = 0;
    static int was_cr = 0;

    /* TODO: jsynacek: I don't think any conversion should take place...
     * RFC 1350 says: "A host which receives netascii mode data must translate
     * the data to its own format."
     * That basically means nothing. What does "own format" even mean?
     * The original implementation translated \n to \n and skipped \0 bytes,
     * which aren't even legal in the netascii format.
     * However, I believe that the file should remain as is before and after
     * the transfer.
     */
    convert = 0;

    if (convert == 0)
        return fwrite(buf, 1, count, fp);

    /* Working conversion. Leave it as dead code for now. */
    if (was_cr && buf[0] == '\n') {
        wbuf[cnt++] = '\n';
        i = 1;
        (void) fseek(fp, -1, SEEK_CUR);
    }

    while(i < count) {
        if (buf[i] == '\n' && buf[i + 1] == '\n') {
            wbuf[cnt++] = '\n';
            ++i;
        } else if (buf[i] == '\0') {
            wbuf[cnt++] = '\0';
            ++i;
        } else if (buf[i] == '\r' && buf[i + 1] == '\n') {
            wbuf[cnt++] = '\n';
            ++i;
        } else if (buf[i] == '\n') {
            wbuf[cnt++] = '\n';
            ++i;
        } else {
            wbuf[cnt++] = buf[i];
            ++i;
        }
    }

    return fwrite(wbuf, 1, cnt, fp);
}

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/* Skip it */
} else {
    wbuf[cnt++] = buf[i];
}
++i;

/* Preserve state between data chunks */
was_cr = buf[i - 1] == '\r';

if (fwrite(wbuf, 1, cnt, fp) == 0)
    return 0;

return count;
}

void set_verbose(int v)
{
    verbose = v;
}

int recv_with_timeout(int s, void *in, int len, int timeout)
{
    return recvfrom_flags_with_timeout(s, in, len, NULL, timeout, 0);
}

int recvfrom_with_timeout(int s,
                          void *in,
                          size_t len,
                          union sock_addr *from,
                          int timeout)
{
    return recvfrom_flags_with_timeout(s, in, len, from, timeout, 0);
}

int recvfrom_flags_with_timeout(int s,
                                 void *in,
                                 size_t len,
                                 union sock_addr *from,
                                 int timeout,
                                 int flags)
{
    socklen_t fromlen = sizeof(from);
    struct pollfd pfd;
    int r;

    pfd.fd = s;
    pfd.events = POLLIN;
    pfd.revents = 0;
```
+ r = poll(&pfds, 1, timeout);
+ if (r > 0) {
+   if (from) {
+     r = recvfrom(s, in, len, flags, &from->sa, &fromlen);
+     if (r < 0)
+       die("recvfrom_flags_with_timeout: recvfrom: %m");
+   } else {
+     r = recv(s, in, len, flags);
+     if (r < 0)
+       die("recvfrom_flags_with_timeout: recv: %m");
+   }
+  }
+
+  return r;
+
+}
+
+int receiver(int sockfd,
+             union sock_addr *server,
+             int blocksize,
+             int windowsize,
+             int timeout,
+             FILE *fp,
+             unsigned long *received,
+             char *error)
+{
+  struct tftphdr *tp;
+  unsigned short tp_opcode, tp_block;
+  unsigned short block = 1;
+  unsigned long amount = 0;
+  int pktsize = blocksize + 4;
+  int window = 1;
+  size_t size;
+  int retries;
+  int n, r = 0;
+
+  pktbuf = calloc(pktsize, 1);
+  if (!pktbuf)
+    die("Out of memory!");
+  tp = (struct tftphdr *)pktbuf;
+
+  retries = RETRIES;
+  do {
+    n = recvfrom_with_timeout(sockfd, tp, pktsize, server, timeout);
+    if (n == 0) {
+      if (--retries <= 0) {
+        r = E_TIMED_OUT;
+        goto abort;
+      }
+      die("recvfrom_with_timeout: timeout expired");
+    } else {
+      if (n != pktsize)
+        die("recvfrom_with_timeout: invalid packet size");
+      if (n > pktsize)
+        die("recvfrom_with_timeout: too much data");
+      if (n < length) {
+        amount += tp_opcode;
+        if (amount > windowsize)
+          die("recvfrom_with_timeout: buffer overflow");
+      } else {
+        amount = 0;
+      }
+      if (tp_opcode == OPCODE_DATA)
+        received += amount;
+      else if (tp_opcode == OPCODE_UINT16)
+        received += 2;
+      else if (tp_opcode == OPCODE_UINT32)
+        received += 4;
+      else if (tp_opcode == OPCODE_UINT64)
+        received += 8;
+      else if (tp_opcode == OPCODE_UINT8)
+        received += 1;
+      else if (tp_opcode == OPCODE_DATA)
+        die("recvfrom_with_timeout: unknown opcode");
+      else if (tp_opcode == OPCODE_UINT16)
+        die("recvfrom_with_timeout: unknown opcode");
+      else if (tp_opcode == OPCODE_UINT32)
+        die("recvfrom_with_timeout: unknown opcode");
+      else if (tp_opcode == OPCODE_UINT64)
+        die("recvfrom_with_timeout: unknown opcode");
+      else if (tp_opcode == OPCODE_UINT8)
+        die("recvfrom_with_timeout: unknown opcode");
+      else
+        die("recvfrom_with_timeout: unknown opcode");
+      tp_opcode = 0;
+      tp_block = 0;
+    }
+  } while (n > 0);
+
+  return r;
+
+}
```
+ } continue;
+ } retries = RETRIES;
+
+ tp_opcode = ntohs(tp->th_opcode);
+ tp_block = ntohs(tp->th_block);
+
+ if (tp_opcode == DATA) {
+     if (tp_block == block) {
+         size = write_data(fp, tp->th_data, n - 4, 0);
+         if (size == 0 && ferror(fp)) {
+             send_error(sockfd, server, "Failed to write data");
+             r = E_FAILED_TO_WRITE;
+             goto abort;
+         }
+         amount += size;
+
+         if (window++ >= windowsize || size != blocksize) {
+             send_ack(sockfd, server, block);
+             window = 1;
+         }
+
+         ++block;
+     } else {
+         do {
+             n = recvfrom_with_timeout(sockfd, pktbuf, pktsize, server, SYNC_TIMEOUT);
+         } while (n > 0);
+         if (windowsize > 0) {
+             send_ack(sockfd, server, block - 1);
+         }
+         window = 1;
+         n = 0;
+     }
+ } else if (tp_opcode == ERROR) {
+     format_error(tp, error);
+     r = E_RECEIVED_ERROR;
+     goto abort;
+ } else {
+     r = E_UNEXPECTED_PACKET;
+     goto abort;
+ } else if (size == blocksize || n == 0);
+
+ /* Last ack can get lost, let's try and resend it twice
+ * to make it more likely that the ack gets to the sender.
+ */
+ --block;
for (n = 0; n < 2; ++n) {
    usleep(SYNC_TIMEOUT * 1000);
    _send_ack(sockfd, server, block, 0);
 }

if (received)
    *received = amount;
abort:
    free(pktbuf);
    return r;
}

int sender(int sockfd,
           union sock_addr *server,
           int blocksize,
           int windowsize,
           int timeout,
           int rollover,
           FILE *fp,
           unsigned long *sent)
{
    struct tftphdr *tp;
    unsigned short tp_opcode, tp_block;
    unsigned short block = 1;
    unsigned long amount = 0;
    int l_timeout = timeout;
    int pktsize = blocksize + 4;
    int window = 1;
    int seek = 0;
    int retries;
    size_t size;
    int done = 0;
    int n, r = 0;

    pktbuf = calloc(pktsize, 1);
    if (!pktbuf)
        die("Out of memory!");
    tp = (struct tftphdr *)pktbuf;

    retries = RETRIES;
    do {
        size = read_data(fp, blocksize, block, seek, tp);
        if (size == 0 && ferror(fp)) {
            send_error(sockfd, server, "Error while reading the file");
            r = E_FAILED_TO_READ;
            goto abort;
        }
        amount += size;
+        seek = 0;
+
+        if (server)
+            n = sendto(sockfd, tp, size + 4, 0, &server->sa, SOCKLEN(server));
+        else
+            n = send(sockfd, tp, size + 4, 0);
+        if (n != size + 4) {
+            syslog(LOG_WARNING, "tftpd: send: %m");
+            r = E_SYSTEM_ERROR;
+            goto abort;
+        }
+
+        if (window++ < windowsize) {
+            /* Even if the entire window is not sent, the server should check for incoming packets
+             * and react to out of order ACKs, or ERRORS.
+             */
+            l_timeout = 0;
+        } else {
+            l_timeout = timeout;
+            window = 1;
+        }
+        done = size != blocksize;
+        if (done) {
+            l_timeout = timeout;
+            window = 1;
+        }
+
+        n = recvfrom_with_timeout(sockfd, pktbuf, pktsize, server, l_timeout);
+        if (n < 0) {
+            syslog(LOG_WARNING, "tftpd: recv: %m");
+            r = E_SYSTEM_ERROR;
+            goto abort;
+        } else if (l_timeout > 0 && n == 0) {
+            seek = -size;
+            if (--retries <= 0) {
+                r = E_TIMED_OUT;
+                goto abort;
+            }
+            done = 0;
+            continue;
+        }
+
+        if (++block == 0)
+            block = rollover;
+
+        tp_opcode = ntohs(tp->th_opcode);
+        tp_block  = ntohs(tp->th_block);
if (tp_opcode == ACK) {
    if (tp_block != (unsigned short)(block - 1)) {
        int offset = tp_block;
        done = 0;
        do {
            n = recvfrom_with_timeout(sockfd, pktbuf, pktsize, server, SYNC_TIMEOUT);
        } while (n > 0);
        /* This is a bit of a hack. Mismatched packets that are "over the edge" of the unsigned short
        * have to be handled and a correct seek has to be issued. In theory, overflowing block number
        * should not even be supported, as it is impossible to distinguish correctly if more than 2^16
        * packets are sent, but the first ones are received later than the last ones.
        */
        if (tp_block > 65000 && tp_block > (unsigned short)(block - 1))
            offset -= 65535;
        seek = (offset - block + 2) * blocksize - size;
    }
    block = tp_block + 1;
    retries = RETRIES;
} else if (tp_opcode == ERROR) {
    r = E_RECEIVED_ERROR;
    goto abort;
} while (!done);

if (sent)
    *sent = amount;
abort:
    free(pktbuf);
    return r;
}
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+ * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
+ * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
+ * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
+ * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
+ * SUCH DAMAGE.
+ */
+
+ ifndef _COMMON_H
+ define _COMMON_H
+
+ include <netinet/in.h>
+ include "config.h"
+
+ define TIMEOUT 1000 /* ms */
+ define RETRIES 6
+
+ define E_TIMED_OUT -1
+ define E_RECEIVED_ERROR -2
+ define E_UNEXPECTED_PACKET -3
+ define E_FAILED_TO_READ -4
+ define E_FAILED_TO_WRITE -5
+ define E_SYSTEM_ERROR -6
+ define ERROR_MAXLEN 511
+
+ union sock_addr {
+ struct sockaddr sa;
+ struct sockaddr_in si;
+#ifdef HAVE_IPV6
+ struct sockaddr_in6 s6;
+#endif
+
};
+
+ define SOCKLEN(sock) \
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17500

+ ((union sock_addr*)sock)->sa.sa_family == AF_INET ? \
+ (sizeof(struct sockaddr_in)) : \
+ (sizeof(union sock_addr)))
+
+const char *opcode_to_str(unsigned short opcode);
+int str_equal(const char *s1, const char *s2);
+void set_verbose(int v);
+
+int format_error(struct tftphdr *tp, char *error);
+void die_on_error(struct tftphdr *tp);
+void send_error(int sockfd, union sock_addr *to, const char *msg);
+void send_ack(int sockfd, union sock_addr *to, unsigned short block);
+int recv_with_timeout(int s, void *in, int len, int timeout);
+int recvfrom_with_timeout(int s, void *in, size_t len, union sock_addr *from, int timeout);
+int recvfrom_flags_with_timeout(int s,
+                                void *in,
+                                size_t len,
+                                union sock_addr *from,
+                                int timeout,
+                                int flags);
+int receiver(int sockfd,
+             union sock_addr *server,
+             int blocksize,
+             int windowsize,
+             int timeout,
+             FILE *fp,
+             unsigned long *received,
+             char *error);
+
+int sender(int sockfd,
+           union sock_addr *server,
+           int blocksize,
+           int windowsize,
+           int timeout,
+           int rollover,
+           FILE *fp,
+           unsigned long *sent);
+#endif

diff --git a/common/tftpsubs.c b/common/tftpsubs.c
index 8c999f6..6033e9b 100644
--- a/common/tftpsubs.c
+++ b/common/tftpsubs.c
@@ -404,3 +404,23 @@ char *strip_address(char *addr)
      return addr;
 }
="#endif
+
+diff --git a/common/tftpsubs.c b/common/tftpsubs.c
index 8c999f6..6033e9b 100644
--- a/common/tftpsubs.c
+++ b/common/tftpsubs.c
@@ -404,3 +404,23 @@ char *strip_address(char *addr)
      return addr;
 }
="#endif
+
+
int str_equal(const char *s1, const char *s2)
{
    return !strcmp(s1, s2);
}

const char *opcode_to_str(unsigned short opcode)
{
    switch(opcode) {
        case RRQ:   return "RRQ";
        case WRQ:   return "WRQ";
        case DATA:  return "DATA";
        case ACK:   return "ACK";
        case ERROR: return "ERROR";
        case OACK:  return "OACK";
        }
    return "UNKNOWN";
}

---

diff --git a/common/tftpsubs.h b/common/tftpsubs.h
index b3a3bf3..311b141 100644
--- a/common/tftpsubs.h
+++ b/common/tftpsubs.h
@@ -38,21 +38,9 @@

#include "config.h"

union sock_addr {
    struct sockaddr     sa;
    struct sockaddr_in  si;
#ifdef HAVE_IPV6
    struct sockaddr_in6 s6;
#endif
};

#ifdef HAVE_IPV6
#define SOCKPORT(sock) 
    ((union sock_addr*)sock)->sa.sa_family == AF_INET ?
    (sizeof(struct sockaddr_in)) :
    (sizeof(union sock_addr))
-
#else
#define SOCKPORT(sock) 
    (sizeof(struct sockaddr))

#endif

#ifdef HAVE_IPV6
#define SOCKLEN(sock) 
    ((union sock_addr*)sock)->sa.sa_family == AF_INET ?
    (sizeof(struct sockaddr)) :
    (sizeof(union sock_addr))
#endif

---

diff --git a/tftp/extern.h b/tftp/extern.h
index 78474fc..dd0523f 100644
--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif

--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif

--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif

--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif

--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif

--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -38,5 +38,5 @@

#endif
#ifdef RECVFILE_H
#define RECVFILE_H

-void tftp_recvfile(int, const char *, const char *);
-void tftp_sendfile(int, const char *, const char *);
+void tftp_recvfile(int, const char *, const char *, int);
+void tftp_sendfile(int, const char *, const char *, int);

#endif

#define TIMEOUT /* secs between rexmt's */
#define RTIMEOUT /* secs between rexmt's */
#define LBUFLEN /* size of input buffer */

struct modes {
    @ -82,7 +82,7 @ int ai_fam_sock = AF_INET;
    union sock_addr peeraddr;
    int f = -1;
    u_short port;
    -int trace;
    +int trace_opt;
    int verbose;
    int literal;
    int connected;
    @ -104,6 +104,7 @ struct servent *sp;
    int portrange = 0;
    unsigned int portrange_from = 0;
    unsigned int portrange_to = 0;
    +int windowsize = -1;

    void get(int, char **);
    void help(int, char **);
    @ -191,14 +192,14 @ @ char *xstrdup(const char *);

    const char *program;

    -static inline void usage(int errcode)
    +static void usage(int errcode)

fprintf(stderr,
#ifdef HAVE_IPV6
-            "Usage: %s [-4][-6][-V][-l][-m mode] [-R port:port] 
+            "Usage: %s [-4][-6][-V][-l][-m mode][-w size] [-R port:port] 
"[host [port]] [-c command]\n",
#else
-            "Usage: %s [-v][-l][-m mode] [-R port:port] 
+            "Usage: %s [-v][-l][-m mode][-w size] [-R port:port] 
"[host [port]] [-c command]\n",
#endif
program);
@@ -279,6 +280,15 @@ int main(int argc, char *argv[])
            portrange = 1;
        break;
+                case 'w':
+                    if (++arg >= argc)
+                        usage(EX_USAGE);
+                    windowsize = atoi(argv[arg]);
+                    if (windowsize <= 0 || windowsize > 64) {
+                        fprintf(stderr, "Bad window size: %s (1-64)\n", argv[arg]);
+                        exit(EX_USAGE);
+                    }
+                    break;
+                case 'h':
+                default:
+                    usage(*optx == 'h' ? 0 : EX_USAGE);

@@ -593,7 +603,7 @@ void put(int argc, char *argv[])
            printf("putting %s to %s:%s [\%s]\n", 
                    cp, hostname, targ, mode->m_mode);
            sa_set_port(&peeraddr, port);
-        tftp_sendfile(fd, targ, mode->m_mode);
+        tftp_sendfile(fd, targ, mode->m_mode, windowsize);
        return;
    }
/* this assumes the target is a directory */
@@ -625,7 +635,7 @@ void put(int argc, char *argv[])
            printf("putting %s to %s:%s [\%s]\n", 
                    argv[n], hostname, remote_pth, mode->m_mode);
            sa_set_port(&peeraddr, port);
-        tftp_sendfile(fd, remote_pth, mode->m_mode);
+        tftp_sendfile(fd, remote_pth, mode->m_mode, windowsize);
    }
}

@@ -693,7 +703,7 @@ void get(int argc, char *argv[])
            printf("getting from %s:%s to %s [%s]\n", 
                    hostname, src, cp, mode->m_mode);
sa_set_port(&peeraddr, port);  
-  tftp_recvfile(fd, src, mode->m_mode);  
+  tftp_recvfile(fd, src, mode->m_mode, windowsize);  
  break;
}
  cp = tail(src);  /* new .. jdg */
@@ -708,7 +718,7 @@ void get(int argc, char *argv[])
    printf("getting from %s:%s to %s [%s]\n",  
      hostname, src, cp, mode->m_mode);
    sa_set_port(&peeraddr, port);  
-  tftp_recvfile(fd, src, mode->m_mode);  
+  tftp_recvfile(fd, src, mode->m_mode, windowsize);
}

@@ -718,7 +728,7 @@ static void getusage(char *s)
    printf("       %s file file ... file if connected\n", s);
}

-int rexmtval = TIMEOUT;  
+int rexmtval = RTIMEOUT;

void setrexmt(int argc, char *argv[])
{
@@ -741,7 +751,7 @@ void setrexmt(int argc, char *argv[])
    rexmtval = t;
}

-int maxtimeout = 5 * TIMEOUT;  
+int maxtimeout = 5 * RTIMEOUT;

void settimeout(int argc, char *argv[])
{
@@ -781,7 +791,7 @@ void status(int argc, char *argv[])
    else
        printf("Not connected.\n");
    printf("Mode: %s Verbose: %s Tracing: %s Literal: %s\n", mode->m_mode,
-    verbose ? "on" : "off", trace ? "on" : "off",  
+    verbose ? "on" : "off", trace_opt ? "on" : "off",  
    literal ? "on" : "off");
    printf("Rexmt-interval: %d seconds, Max-timeout: %d seconds\n",  
      rexmtval, maxtimeout);
@@ -969,8 +979,8 @@ void settrace(int argc, char *argv[])
    (void)argc;
    (void)argv;                 /* Quiet unused warning */

    -  trace = !trace;
    -  printf("Packet tracing %s, trace ? "on" : "off");

trace_opt = !trace_opt;
printf("Packet tracing %s\n", trace_opt ? "on" : "off");
}

void setverbose(int argc, char *argv[])

--- a/tftp/tftp.1.in
+++ b/tftp/tftp.1.in
@@ -82,6 +82,9 @@ Default to verbose mode.
     \-V
     \-w \fP \fIwindow-size\fP
     +Set the "windowsize" TFTP option (RFC 7440) to the specified value.

.SH COMMANDS

Once
     \.B tftp

--- a/tftp/tftp.c
+++ b/tftp/tftp.c
@@ -31,355 +31,307 @@
     -SUCH DAMAGE.
*/

+#include <poll.h>
+#include <stdarg.h>
#include "common/tftpsubs.h"
-
-/*
- * TFTP User Program -- Protocol Machines
- */
#include "extern.h"

+/* TODO: This 'peeraddr' global should be removed. */
extern union sock_addr peeraddr; /* filled in by main */
extern int f; /* the opened socket */
extern int trace; /* the opened socket */
extern int trace_opt;
extern int verbose;
extern int rexmtval;
extern int maxtimeout;
-
+/* TODO: Adjust when blocksize is implemented. */
#define PKTSIZE SEGSIZE+4
-char ackbuf[PKTSIZE]:

-int timeout;
-sigjmp_buf toplevel;
-sigjmp_buf timeoutbuf;
+static char pktbuf[PKTSIZE];

-static void nak(int, const char *);
-static int makerequest(int, const char *, struct tftphdr *, const char *);
static void printstats(const char *, unsigned long);
static void startclock(void);
static void stopclock(void);
-static void timer(int);
-static void tpacket(const char *, struct tftphdr *, int);
+static void timed_out(void)
+{
    printf("client: timed out");
    exit(1);
    +
    +static void die(const char *fmt, ...)
+{
    +  va_list ap;
    +
    +  va_start(ap, fmt);
    +  fprintf(stderr, "fatal: client: ");
    +  vfprintf(stderr, fmt, ap);
    +  printf("\n");
    +  va_end(ap);
    +  exit(1);
    +
    +static size_t make_request(unsigned short opcode,
    +  const char *name,
    +  const char *mode,
    +  int blocksize,
    +  int windowsize,
    +  struct tftphdr *out)
+{
    +  char *cp, buf[16];
    +  size_t len;
    +
    +  cp = (char *)&(out->th_stuff);
    +
    +  out->th_opcode = htons(opcode);
    +
    +  len = strlen(name) + 1;
    +  memcpy(cp, name, len);
    +  cp += len;
    +
+ len = strlen(mode) + 1;
+ memcpy(cp, mode, len);
+ cp += len;
+
+ /* Don't include options with default values. */
+
+ /* TODO: TBI in a separate patch. */
+ (void) blocksize;
+ /*if (blocksize != SEGSIZE) {
+     len = strlen("blksize") + 1;
+     memcpy(cp, "blksize", len);
+     cp += len;
+     if (snprintf(buf, 16, "%u", blocksize) < 0)
+         die("out of memory");
+     len = strlen(buf) + 1;
+     memcpy(cp, buf, len);
+     cp += len;
+ }*/
+
+ if (windowsize > 0) {
+     len = strlen("windowsize") + 1;
+     memcpy(cp, "windowsize", len);
+     cp += len;
+     if (snprintf(buf, 16, "%u", windowsize) < 0)
+         die("out of memory");
+     len = strlen(buf) + 1;
+     memcpy(cp, buf, len);
+     cp += len;
+ }
+
+ return (cp - (char *)out);
+}
+
+static void send_request(int sock,
+     union sock_addr *to,
+     short request,
+     const char *name,
+     const char *mode,
+     unsigned blocksize,
+     unsigned windowsize)
+{
+    struct tftphdr *out;
+    size_t size;
+
+    out = (struct tftphdr *)pktbuf;
+    size = make_request(request, name, mode, blocksize, windowsize, out);
+    if (sendto(sock, out, size, 0, &to->sa, SOCKLEN(to)) != (unsigned)size)
+ die("send_request: sendto: %m");
+
+static int wait_for_oack(int sock, union sock_addr *from, char **options, int *optlen)
+{
+    unsigned short in_opcode;
+    struct tftphdr *in;
+    int r;
+
+    r = recvfrom_with_timeout(sock, pktbuf, sizeof(pktbuf), from, TIMEOUT);
+    if (r == 0)
+        return r;
+
+    in = (struct tftphdr *)pktbuf;
+    in_opcode = ntohs(in->th_opcode);
+
+    if (in_opcode == ERROR)
+        die_on_error(in);
+    if (in_opcode != OACK)
+        return -in_opcode;
+
+    *options = pktbuf + 2;
+    *optlen = r - 2;
+
+    return 1;
+
}/*
 * Send the requested file.
 */
-
+void tftp_sendfile(int fd, const char *name, const char *mode, int windowsize)
{          /* data and ack packets */
-    struct tftphdr *ap;         /* data and ack packets */
-    struct tftphdr *dp;
-    int n;
-    volatile int is_request;
-    volatile u_short block;
-    volatile int size, convert;
-    volatile off_t amount;
-    union sock_addr from;
-    socklen_t fromlen;
-    FILE *file;
-    u_short ap_opcode, ap_block;
-
-    startclock();               /* start stat's clock */
-    dp = r_init();              /* reset fillbuf/read-ahead code */
-    ap = (struct tftphdr *)ackbuf;

convert = !strcmp(mode, "netascii");
file = fdopen(fd, convert ? "rt" : "rb");
block = 0;
is_request = 1; /* First packet is the actual WRQ */
amount = 0;

bsd_signal(SIGALRM, timer);
union sock_addr server = peeraddr;
unsigned long amount = 0;
int blocksize = SEGSIZE;
char *options;
int optlen;
int retries;
FILE *fp;
int n, r;

set_verbose(trace_opt + verbose);

startclock();
send_request(f, &server, WRQ, name, mode, blocksize, windowsize);

/* If no windowsize was specified on the command line,
* don't bother with options.
* When blocksize is supported, this should actually only be called
* if no options were sent in the RRQ.
*/
if (windowsize < 0)
goto no_options;
retries = RETRIES;
do {
    if (is_request) {
        size = makerequest(WRQ, name, dp, mode) - 4;
    } else {
        /* size = read(fd, dp->th_data, SEGSIZE); */
        size = readit(file, &dp, convert);
        if (size < 0) {
            nak(errno + 100, NULL);
            break;
        }
        dp->th_opcode = htons((u_short) DATA);
        dp->th_block = htons((u_short) block);
        r = wait_for_oack(f, &server, &options, &optlen);
        if (r < 0) {
            return;
        }
    }
    timeout = 0;
    (void) sigsetjmp(timeoutbuf, 1);
}
if (trace)
    tpacket("sent", dp, size + 4);
if (n != size + 4) {
    perror("tftp: sendto");
goto abort;
}
read_ahead(file, convert);
for (;;) {
    alarm(rexmtval);
    do {
        fromlen = sizeof(from);
        n = recvfrom(f, ackbuf, sizeof(ackbuf), 0,
                     &from.sa, &fromlen);
    } while (n <= 0);
    alarm(0);
    if (n < 0) {
        perror("tftp: recvfrom");
goto abort;
    }
    sa_set_port(&peeraddr, SOCKPORT(&from));  /* added */
    if (trace)
        tpacket("received", ap, n);
    /* should verify packet came from server */
ap_opcode = ntohs((u_short) ap->th_opcode);
ap_block = ntohs((u_short) ap->th_block);
if (ap_opcode == ERROR) {
    printf("Error code %d: %s\n", ap_block, ap->th_msg);
goto abort;
}
if (ap_opcode == ACK) {
    int j;

    if (ap_block == block) {
        break;
        /* Parse returned options. */
    n = 0;
    if (r != 0) {
        char *opt, *val;
        int got_ws = 0;
        int v;
        while (n < optlen) {
            opt = options + n;
            n += strlen(opt) + 1;
            val = options + n;
            if (str_equal(opt, "windowsize") && windowsize != 1) {
+ v = atoi(val);
+ if (v != windowsize)
+    printf("client: server negotiated different window size: %d", v);
+ /* Assumes v > 0, it probably shouldn't. */
+ window size = v;
+ got_ws = 1;
+ }
- /* On an error, try to synchronize
- * both sides.
- */
- j = synchnet(f);
- if (j && trace) {
-     printf("discarded %d packets\n", j);
- }
- /*
- * RFC1129/RFC1350: We MUST NOT re-send the DATA
- * packet in response to an invalid ACK. Doing so
- * would cause the Sorcerer's Apprentice bug.
- */
+ n += strlen(val) + 1;
+ }
+
+ if (got_ws == 0 && window size != 1) {
+    window size = 1;
+    printf("client: server didn't negotiate window size, continuing with window size=1");
+ }
- if (!is_request)
-    amount += size;
- is_request = 0;
- block++;
- } while (size == SEGSIZE || block == 1);
- abort:
- fclose(file);
+ } while (r == 0 && --retries > 0);
+ if (retries <= 0)
+    timed_out();
+
+ no_options:
+ if (window size < 0) {
+    struct tftphdr *tp = (struct tftphdr *)pktbuf;
+    retries = RETRIES;
+    do {
+        r = recvfrom_with_timeout(f, pktbuf, PKTSIZE, &server, TIMEOUT);
+        if (r == 0) {
+            /* Timed out. */
+            continue;
+        } else if (r < 0) {
+            continue;
+        } else { /* DATA */
+            size = ntohl(tp->length);  
+            if (size < 1) {
+                size += 1;
+                /* The server has negotiated a window size of 1. */
+                window size = 1;
+                printf("client: server negotiated window size=1, continuing with window size=1");
+            } else if (size > 0) {
+                amount += size;
+                if (is_request) {
+                    printf("client: received %d bytes
", size);
+                }
+            }
+        }
+    } while (r > 0);
+ }
- /* RFC1129/RFC1350: We MUST NOT re-send the DATA
- packet in response to an invalid ACK. Doing so
- would cause the Sorcerer's Apprentice bug.
- */
+ /*
+ * RFC1129/RFC1350: We MUST NOT re-send the DATA
+ * packet in response to an invalid ACK. Doing so
+ * would cause the Sorcerer's Apprentice bug.
+ */
+ }
if (ntohs(tp->th_opcode) == ACK && ntohs(tp->th_block) == 0) {
    break;
} else if (ntohs(tp->th_opcode) == ERROR) {
    die_on_error(tp);
}

while (r == 0 && --retries > 0);
if (retries <= 0)
    timed_out();

fp = fdopen(fd, "r");
r = sender(f, &server, blocksize, windowsize, TIMEOUT, 0, fp, &amount);
if (r < 0)
    exit(1);

stopclock();
if (amount > 0)
    printstats("Sent", amount);
}

/*
 * Receive a file.
 */

void tftp_recvfile(int fd, const char *name, const char *mode)
{
    struct tftphdr *ap;
    struct tftphdr *dp;
    int n;
    volatile u_short block;
    volatile int size, firsttrip;
    volatile unsigned long amount;
    union sock_addr from;
    socklen_t fromlen;
    FILE *file;
    volatile int convert; /* true if converting crlf -> lf */
    u_short dp_opcode, dp_block;
    union sock_addr server = peeraddr;
    unsigned long amount = 0;
    int blocksize = SEGSIZE;
    char *options, error[ERROR_MAXLEN];
    int optlen;
    int retries;
    FILE *fp;
    int n, r;
    
    set_verbose(trace_opt + verbose);
startclock();
- dp = w_init();
- ap = (struct tftphdr *)ackbuf;
- convert = !strcmp(mode, "netascii");
- file = fdopen(fd, convert ? "wt" : "wb");
- block = 1;
- firsttrip = 1;
- amount = 0;
-
- bsd_signal(SIGALRM, timer);
+
+ send_request(f, &server, RRQ, name, mode, blocksize, windowsize);
+ /* If no windowsize was specified on the command line,
+ * don't bother with options.
+ * When blocksize is supported, this should actually only be called
+ * if no options were sent in the RRQ.
+ */
+ if (windowsize < 0)
+  goto no_options;
+ retries = RETRIES;
+ do {
+   if (firsttrip) {
+     size = makerequest(RRQ, name, ap, mode);
+     firsttrip = 0;
+   } else {
+     ap->th_opcode = htons((u_short) ACK);
+     ap->th_block = htons((u_short) block);
+     size = 4;
+     block++;
+   }
+   timeout = 0;
+   (void) sigsetjmp(timeoutbuf, 1);
+   send_ack:
+   if (trace)
+     tpacket("sent", ap, size);
+   if (sendto(f, ackbuf, size, 0, &peeraddr.sa,
+    SOCKLEN(&peeraddr)) != size) {
+     alarm(0);
+     perror("tftp: sendto");
+     goto abort;
+ r = wait_for_oack(f, &server, &options, &optlen);
+ if (r < 0) {
+ return;
+ }
+ write_behind(file, convert);
+ for (;;) {
+ alarm(rexmtval);
- do {
-     fromlen = sizeof(from);
-     n = recvfrom(f, dp, PKTSIZE, 0,
-                 &from.sa, &fromlen);
- } while (n <= 0);
- alarm(0);
- if (n < 0) {
-     perror("tftp: recvfrom");
-     goto abort;
- }
- sa_set_port(&peeraddr, SOCKPORT(&from)); /* added */
- if (trace)
-     tpacket("received", dp, n);
- /* should verify client address */
- dp_opcode = ntohs((u_short) dp->th_opcode);
- dp_block = ntohs((u_short) dp->th_block);
- if (dp_opcode == ERROR) {
-     printf("Error code %d: %s\n", dp_block, dp->th_msg);
-     goto abort;
- }
- if (dp_opcode == DATA) {
-     int j;
-     if (dp_block == block) {
-         break; /* have next packet */
-     }
-     /* On an error, try to synchronize
-      * both sides.
-      */
-     j = synchnet(f);
-     if (j && trace) {
-         printf("discarded %d packets\n", j);
-     }
-     if (dp_block == (block - 1)) {
-         goto send_ack; /* resend ack */
-     }
-     /* Parse returned options. */
-     n = 0;
-     if (r != 0) {
-         char *opt, *val;
-         int got_ws = 0;
-         int v;
-         while (n < optlen) {
-             opt = options + n;
-             n += strlen(opt) + 1;
-             val = options + n;
-             if (str_equal(opt, "windowsize") && windowsize != 1) {
-                 v = atoi(val);
+ if (v != windowsize)
+     printf("client: server negotiated different windowsize: %d", v);
+ /* Assumes v > 0, it probably shouldn't. */
+ windowsize = v;
+ got_ws = 1;
+ }
+ n += strlen(val) + 1;
+ }
+
+ if (got_ws == 0 && windowsize != 1) {
+    windowsize = 1;
+    printf("client: server didn't negotiate windowsize, continuing with windowsize=1");
+ }
+ n += strlen(val) + 1;
+ }
+
+ while (r == 0 && --retries > 0);
+ if (retries <= 0)
+     timed_out();
+
+ send_ack(f, &server, 0);
+
+ no_options:
+ fp = fdopen(fd, "w");
+ r = receiver(f, &server, blocksize, windowsize, TIMEOUT, fp, &amount, error);
+ if (r < 0) {
+     fprintf(stderr, "%s\n", error);
+     exit(1);
+ }
+
+ stopclock();
+ if (amount > 0)
+     printstats("Received", amount);
static int makerequest(int request, const char *name, struct tftphdr *tp, const char *mode) {
    char *cp;
    size_t len;

    tp->th_opcode = htons((u_short) request);
    cp = (char *)&(tp->th_stuff);
    len = strlen(name) + 1;
    memcpy(cp, name, len);
    cp += len;
    len = strlen(mode) + 1;
    memcpy(cp, mode, len);
    cp += len;
    return (cp - (char *)tp);
}

static const char *const errmsgs[] = {
    "Undefined error code",     /* 0 - EUNDEF */
    "File not found",           /* 1 - ENOTFOUND */
    "Access denied",            /* 2 - EACCESS */
    "Disk full or allocation exceeded", /* 3 - ENOSPACE */
    "Illegal TFTP operation",   /* 4 - EBADOP */
    "Unknown transfer ID",      /* 5 - EBADID */
    "File already exists",      /* 6 - EEXISTS */
    "No such user",             /* 7 - ENOUSER */
    "Failure to negotiate RFC2347 options"      /* 8 - EOPTNEG */
};

#define ERR_CNT (sizeof(errmsgs)/sizeof(const char *))

/* Send a nak packet (error message).
 * Error code passed in is one of the
 * standard TFTP codes, or a UNIX errno
 * offset by 100.
 */
static void nak(int error, const char *msg) {
    struct tftphdr *tp;
    int length;

    tp = (struct tftphdr *)ackbuf;
    tp->th_opcode = htons((u_short) ERROR);
    tp->th_code = htons((u_short) error);
    if (error >= 100) {
/* This is a Unix errno+100 */
if (!msg)
    msg = strerror(error - 100);
error = EUNDEF;
}
if ((unsigned)error >= ERR_CNT)
    error = EUNDEF;
    if (!msg)
        msg = errmsgs[error];
    }

    tp->th_code = htons((u_short) error);

    length = strlen(msg) + 1;
    memcpy(tp->th_msg, msg, length);
    length += 4;                /* Add space for header */
-
    if (trace)
        tpacket("sent", tp, length);
    if (sendto(f, ackbuf, length, 0, &peeraddr.sa,
               SOCKLEN(&peeraddr)) != length)
        perror("nak");
-
    if (op < RRQ || op > ERROR)
        printf("%s opcode=%x ", s, op);
    else
        printf("%s %s ", s, opcodes[op]);
    switch (op) {
-
    case RRQ:
    case WRQ:
        n = 2;
        file = cp = (char *)&(tp->th_stuff);
        cp = strchr(cp, '0');
        printf("<file=%s, mode=%s>", file, cp + 1);
        break;
-
    case DATA:
        printf("<block=%d, %d bytes>", ntoa(th_block), n - 4);
- break;
-}
-}
-
- case ACK:
-    printf("<block=%d>\n", ntohs(tp->th_block));
- break;
-
- case ERROR:
-    printf("<code=%d, msg=%s>\n", ntohs(tp->th_code), tp->th_msg);
- break;
-    }
+ fclose(fp);
+
+ struct timeval tstart;
@@ -404,23 +356,9 @@ static void printstats(const char *direction, unsigned long amount)
+
+ struct timeval tstart;
+ @ @ -404.23 +356.9 @ @ static void printstats(const char *direction, unsigned long amount)
+    (tstart.tv_sec + (tstart.tv_usec / 1000000.0));
+    if (verbose) {
+        printf("%s %lu bytes in %.1f seconds", direction, amount, delta);
+        /* TODO: Change the statistics in a separate patch (bits???)! */
+        printf(" [%.0f bit/s]", (amount * 8.) / delta);
+        putchar('n');
+    }
+
- static void timer(int sig)
- {
-    int save_errno = errno;
-    timeout += rexmtval;
-    if (timeout >= maxtimeout) {
-        printf("Transfer timed out.\n");
-        errno = save_errno;
-        siglongjmp(toplevel, -1);
-    }
-    errno = save_errno;
-    siglongjmp(timeoutbuf, 1);
-}
+
+ diff --git a/tftpd/tftpd.8.in b/tftpd/tftpd.8.in
+ index 321b8c6..46384d6 100644
+ --- a/tftpd/tftpd.8.in
+ +++ b/tftpd/tftpd.8.in
+ @@ -227,6 +227,11 @@ Set the time before the server retransmits a packet, in microseconds.
+ \fBrollover\fP (nonstandard)
+ Set the block number to resume at after a block number rollover. The
default and recommended value is zero.
+ .TP
+\fBwindowsize\fP (RFC 7440)
+Set the windowsize to a number of blocks that should be sent before
+expecting an ack. The default is 1, which means the same functionality
+as if windowsize wasn't used. Maximum is 64.

.PP
The
.B \-\-refuse
@@ -408,6 +413,9 @@ RFC 2348,
 .br
RFC 2349,
 .IR "TFTP Timeout Interval and Transfer Size Options".
+br
+RFC 7440,
+.IR "TFTP Windowsize Option".
.SH "AUTHOR"
This version of
.B tftpd
diff --git a/tftpd/tftpd.c b/tftpd/tftpd.c
index b7a5a95..98adbc1 100644
--- a/tftpd/tftpd.c
+++ b/tftpd/tftpd.c
@@ -48,6 +48,8 @@
 #include <pwd.h>
 #include <limits.h>
 #include <syslog.h>
+#include <poll.h>
+#include <stdarg.h>
#include "common/tftpsubs.h"
#include "recvfrom.h"
@@ -72,23 +74,16 @@ static int ai_fam = AF_UNSPEC;
 static int ai_fam = AF_INET;
 #endif
-#define	TIMEOUT 1000000         /* Default timeout (us) */
-#define TRIES   6               /* Number of attempts to send each packet */
-#define TIMEOUT_LIMIT ((1 << TRIES)-1)
-
-const char *__progname;
-static int peer;
-#defineTIMEOUT 1000000        /* Default timeout (us) */
-#define TRIES  6               /* Number of attempts to send each packet */
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-
-const char *__progname;
-static int peer;
-#defineTIMEOUT 1000000        /* Default timeout (us) */
-#define TRIES  6               /* Number of attempts to send each packet */
-#define TIMEOUT_LIMIT ((1 << TRIES)-1)
#define PKTSIZE MAX_SEGSIZE+4
static char buf[PKTSIZE];
static char ackbuf[PKTSIZE];
+static char pktbuf[PKTSIZE];
static unsigned int max_blksize = MAX_SEGSIZE;
+#define MAX_WINDOWSIZE 64

static char tmpbuf[INET6_ADDRSTRLEN], *tmp_p;

@@ -113,8 +108,7 @@ static struct rule *rewrite_rules = NULL;
#endif

int tftp(struct tftphdr *, int);
-static void nak(int, const char *);
-static void timer(int);
+static void nak(int error, const char *msg);
static void do_opt(const char *, const char *, char **);

static int set_blksize(uintmax_t *);
@@ -123,6 +117,9 @@ static int set_tsize(uintmax_t *);
static int set_timeout(uintmax_t *);
static int set_utimeout(uintmax_t *);
static int set_rollover(uintmax_t *);
+static int set_windowsize(uintmax_t *);
+
+int g_timeout = 1000; /* ms */

struct options {
    const char *o_opt;
@@ -134,6 +131,7 @@ struct options {
        set_timeout,
        set_utimeout,
        set_rollover,
+        set_windowsize,
            {NULL, NULL}
    };

@@ -152,16 +150,6 @@ static void handle_exit(int sig)
        exit_signal = sig;
    }

-/* Handle timeout signal or timeout event */
-void timer(int sig)
-{  
-    (void) SIG;            /* Suppress unused warning */
-    timeout <<= 1;
-    if (timeout >= maxtimeout || timeout_quit)
-        exit(0);
- siglongjmp(timeoutbuf, 1);
-
#endif

ifdef WITH_REGEX
static struct rule *read_remap_rules(const char *file)
{
    /*
     * Receive packet with synchronous timeout; timeout is adjusted
     * to account for time spent waiting.
     */
    static int recv_time(int s, void *rbuf, int len, unsigned int flags,
                          unsigned long *timeout_us_p)
    {
        fd_set fdset;
        struct timeval tmv, t0, t1;
        int rv, err;
        unsigned long timeout_us = *timeout_us_p;
        unsigned long timeout_left, dt;
        
        gettimeofday(&t0, NULL);
        timeout_left = timeout_us;
        
        for (;;) {
            FD_ZERO(&fdset);
            FD_SET(s, &fdset);
            
            do {
                tmv.tv_sec = timeout_left / 1000000;
                tmv.tv_usec = timeout_left % 1000000;
                
                rv = select(s + 1, &fdset, NULL, NULL, &tmv);
                err = errno;
                
                gettimeofday(&t1, NULL);
                timeout_left = timeout_us;
                
                dt = (t1.tv_sec - t0.tv_sec) * 1000000 +
                     (t1.tv_usec - t0.tv_usec);
                *timeout_us_p = timeout_left =
                    (dt >= timeout_us) ? 1 : (timeout_us - dt);
            } while (rv == -1 && err == EINTR);
            
            if (rv == 0) {
                timer(0);           /* Should not return */
                return -1;
set_socket_nonblock(s, 1);
rv = recv(s, rbuf, len, flags);
err = errno;
set_socket_nonblock(s, 0);

if (rv < 0) {
    if (E_WOULD_BLOCK(err) || err == EINTR) {
        continue; /* Once again, with feeling... */
    } else {
        errno = err;
        return rv;
    }
} else {
    return rv;
}
}

static int split_port(char **ap, char **pp)
{
    char *a, *p;
    enum long_only_options {
        OPT_VERBOSITY = 256,
    };
    +
    static struct option long_options[] = {
        { "ipv4", 0, NULL, '4' },
        { "ipv6", 0, NULL, '6' },
    };
    @@ -389,7 +319,7 @@ int main(int argc, char **argv)
        char envtz[10];
        my_time = time(NULL);
        p_tm = localtime(&my_time);
-        snprintf(envtz, sizeof(envtz) - 1, "UTC%+d", (p_tm->tm_gmtoff * -1)/3600);
+        snprintf(envtz, sizeof(envtz) - 1, "UTC%+ld", (p_tm->tm_gmtoff * -1)/3600);
        setenv("TZ", envtz, 0);
        /* basename() is way too much of a pain from a portability standpoint */
    } @ @ -455,8 +385,7 @@ int main(int argc, char **argv)
        syslog(LOG_ERR, "Bad timeout value: %s", optarg);
        exit(EX_USAGE);
    }
    rexmtval = timeout = tov;
    maxtimeout = rexmtval * TIMEOUT_LIMIT;
+    g_timeout = tov;
}
break;
case 'R':
@@ -1090,9 +1019,9 @@ int tftp(struct tftphdr *tp, int size)
      u_short tp_opcode = ntohs(tp->th_opcode);

      char *val = NULL, *opt = NULL;
-    char *ap = ackbuf + 2;
+    char *ap = pktbuf + 2;

      ((struct tftphdr*)ackbuf)->th_opcode = htons(OACK);
+      ((struct tftphdr*)pktbuf)->th_opcode = htons(OACK);

      origfilename = cp = (char *)&(tp->th_stuff);
      argn = 0;
@@ -1176,11 +1105,11 @@ int tftp(struct tftphdr *tp, int size)
             exit(0);
      }

-    if (ap != (ackbuf + 2)) {
+    if (ap != (pktbuf + 2)) {
        if (tp_opcode == WRQ)
-            (*pf->f_recv) (pf, (struct tftphdr *)ackbuf, ap - ackbuf);
+            (*pf->f_recv) (pf, (struct tftphdr *)pktbuf, ap - pktbuf);
          else
-            (*pf->f_send) (pf, (struct tftphdr *)ackbuf, ap - ackbuf, origfilename);
+            (*pf->f_send) (pf, (struct tftphdr *)pktbuf, ap - pktbuf, origfilename);
      } else {
        if (tp_opcode == WRQ)
-            (*pf->f_recv) (pf, NULL, 0);
+            (*pf->f_recv) (pf, NULL, 0);
@@ -1248,7 +1177,7 @@ static int set_blksize2(uintmax_t *vp)
 static int set_rollover(uintmax_t *vp)
 {
      uintmax_t ro = *vp;
-      
+      if (ro > 65535)
          return 0;

@@ -1287,8 +1216,7 @@ static int set_timeout(uintmax_t *vp)
     if (to < 1 || to > 255)
         return 0;

-      rexmtval = timeout = to * 1000000UL;
-      maxtimeout = rexmtval * TIMEOUT_LIMIT;
+      g_timeout = to * 1000;

     return 1;
static int set_utimeout(uintmax_t *vp)
{
    if (to < 10000UL || to > 255000000UL)
        return 0;
    rexmtval = timeout = to;
    maxtimeout = rexmtval * TIMEOUT_LIMIT;
    g_timeout = to / 1000;
    return 1;
}

/* Set window size (c.f. RFC7440) */
static int set_windowsize(uintmax_t *vp)
{
    if (*vp < 1 || *vp > MAX_WINDOWSIZE)
        return 0;

    windowsize = *vp;
    return 1;
}

static void do_opt(const char *opt, const char *val, char **ap)
{
    optlen = strlen(opt);
    retlen = sprintf(retbuf, "\%"PRIuMAX, v);

    if (p + optlen + retlen + 2 >= ackbuf + sizeof(ackbuf)) {
        nak(EOPTNEG, "Insufficient space for options");
        exit(0);
    }

    memcpy(p, opt, optlen+1);
    p += optlen+1;
    memcpy(p, retbuf, retlen+1);

    validate_access(filename, mode, oacklen);
}

static void tftp_sendfile(const struct formats *pf, struct tftphdr *oap, int oacklen, char *filename)
{
    struct tftphdr *dp;
    struct tftphdr *ap;         /* ack packet */
    static u_short block = 1;   /* Static to avoid longjmp funnies */
    u_short ap_opcode, ap_block;
    unsigned long r_timeout;
    int size, n;

    /* Ack packet */
    ap_opcode = htons(ACK_OPCODE);
    ap_block = htons(block);
    ap = (struct tftphdr *) malloc(sizeof(struct tftphdr));
    ap_opcode = htonl(ap_opcode);
    ap_block = htonl(ap_block);
    ap->opcode = htons(ACK_OPCODE);
    ap->block = htons(block);
    ap->data = (uint8_t *) malloc(1);
    ap->data[0] = 0;
    ap->data_length = sizeof(ap->data);

    /* Send file */
    dp = (struct tftphdr *) malloc(sizeof(struct tftphdr));
    dp->opcode = htons(SEND_OPCODE);
    dp->data = (uint8_t *) malloc(sizeof(dp->data));
    dp->data_length = sizeof(dp->data);
    dp->data[0] = pf->data[0];
    dp->data_length = sizeof(dp->data);

    /* Set window size */
    windowsize = pf->windowsize;
    windowsize += sizeof(dp->data);

    /* Set timeout */
    r_timeout = timeout;
    r_timeout *= TIMEOUT_LIMIT;
    r_timeout /= 1000;

    /* Set block size */
    block = 1;

    /* Send file */
    sendfile(dp, ap, filename);

    /* Wait for acknowledgment */
    waitfor_ack(dp, ap);

    /* Free memory */
    free(dp);
    free(ap);

    /* Print progress */
    printf("%d/%d\n", size, n);
}

/* Validate access */
static int validate_access(char *filename, int mode, int oacklen)
{
    /* Check file existence */
    if (access(filename, mode) == -1)
        return 0;

    /* Check file size */
    file_size = stat(filename, &statbuf);

    /* Check file type */
    if (statbuf.st_mode & S_IFDIR)
        return 0;

    /* Check file permissions */
    if (statbuf.st_mode & S_IRUSR)
        return 1;

    /* Check file owner */
    if (statbuf.st_uid != getuid())
        return 0;

    /* Check file group */
    if (statbuf.st_gid != getgid())
        return 0;

    /* Check file size */
    if (file_size != 0)
        return 1;

    /* Check file mode */
    if (mode != S_IRUSR)
        return 0;

    return 1;
}
struct tftphdr *tp = (struct tftphdr *)pktbuf;
unsigned short tp_opcode, tp_block;
int retries = RETRIES;
int timed_out = 0;
int n, r = 0;
(void) pf;

setVerbose(verbosity);
if (oap) {
    timeout = rexmtval;
    (void) sigsetjmp(timeoutbuf, 1);
    oack:
    _r_timeout = timeout;
    if (send(peer, oap, oacklen, 0) != oacklen) {
        syslog(LOG_WARNING, "tftpd: oack: %m\n");
        goto abort;
    }
    for (;;) {
        n = recv_time(peer, ackbuf, sizeof(ackbuf), 0, &_r_timeout);
        if (n < 0) {
            syslog(LOG_WARNING, "tftpd: read: %m\n");
            goto abort;
        }
        ap = (struct tftphdr *)ackbuf;
        ap_opcode = ntohs((u_short) ap->th_opcode);
        ap_block = ntohs((u_short) ap->th_block);
        if (ap_opcode == ERROR) {
            syslog(LOG_WARNING, "tftp: client does not accept options\n");
        }
        do {
            if (send(peer, oap, oacklen, 0) != oacklen) {
                syslog(LOG_WARNING, "tftpd: oack: %m\n");
                goto abort;
            }
            if (ap_opcode == ACK) {
                if (ap_block == 0)
                    break;
                /* Resynchronize with the other side */
                (void) synchnet(peer);
                goto oack;
            }
        } while (1);
    }
    dp = r_init();
    do {

size = readit(file, &dp, pf->f_convert);
if (size < 0) {
    nak(erno + 100, NULL);
    goto abort;
}

dp->th_opcode = htons((u_short) DATA);
dp->th_block = htons((u_short) block);
timeout = rexmtval;
(void) sigsetjmp(timeoutbuf, 1);

r_timeout = timeout;
if (send(peer, dp, size + 4, 0) != size + 4) {
    syslog(LOG_WARNING, "tftpd: write: %m");
    goto abort;
}

read_ahead(file, pf->f_convert);
for (;;) {
    n = recv_time(peer, ackbuf, sizeof(ackbuf), 0, &r_timeout);
    if (n < 0) {
        syslog(LOG_WARNING, "tftpd: read(ack): %m");
        goto abort;
    } else if (n == 0) {
        if (--retries <= 0) {
            timed_out = 1;
            goto abort;
        }
        continue;
    }
    ap = (struct tftphdr *)ackbuf;
    ap_opcode = ntohs((u_short) ap->th_opcode);
    ap_block = ntohs((u_short) ap->th_block);

    if (ap_opcode == ERROR)
        goto abort;
tp_opcode = ntohs(tp->th_opcode);
tp_block = ntohs(tp->th_block);

    if (ap_opcode == ACK) {
        if (ap_block == block)
            break;
        /* Re-synchronize with the other side */
        (void) synchnet(peer);
        /*
        * RFC1129/RFC1350: We MUST NOT re-send the DATA
        * packet in response to an invalid ACK. Doing so
* would cause the Sorcerer's Apprentice bug.

```c
+            if (tp_opcode == ERROR) {
+                char error[ERROR_MAXLEN];
+                format_error(tp, error);
+                syslog(LOG_WARNING, "%s", error);
+                goto abort;
+            } else if (!(tp_opcode == ACK && tp_block == 0)) {
+                syslog(LOG_WARNING, "unexpected packet %s block=%u", opcode_to_str(tp_opcode), tp_block);
+                send_error(peer, NULL, "Unexpected packet");
+                exit(1);
+            }
+        } while (n == 0);
+    }
+    r = sender(peer, NULL, segsize, windowsize, TIMEOUT, rollover_val, file, NULL);
+}  
```

```c
+    syslog(LOG_NOTICE, "Client %s finished %s", tmp_p, filename);
```

```c
+abort:
+    if (timed_out || r == E_TIMED_OUT)
+        syslog(LOG_NOTICE, "Client %s timed out", tmp_p);
+    fclose(file);
+}
/*
 @@ -1673,90 +1572,44 @@ static void tftp_sendfile(const struct formats *pf, struct tftphdr *oap, int oac *
*/
static void tftp_recvfile(const struct formats *pf, struct tftphdr *oap, int oacklen)
{  
    struct tftphdr *dp;
    int n, size;
    /* These are "static" to avoid longjmp funnies */
    - static struct tftphdr *ap; /* ack buffer */
```

Open Source Used In IOS XR Software 7.7.1 17527
- static u_short block = 0;
- static int acksize;
- u_short dp_opcode, dp_block;
- unsigned long r_timeout;
-
- dp = w_init();
- do {
-   timeout = rexmtval;
-
-   if (!block && oap) {
-     ap = (struct tftphdr *)ackbuf;
-     acksize = oacklen;
-   } else {
-     ap = (struct tftphdr *)ackbuf;
-     ap->thOpcode = htons((u_short) ACK);
-     ap->th_block = htons((u_short) block);
-     acksize = 4;
-     /* If we're sending a regular ACK, that means we have successfully
-     * sent the OACK. Clear oap so that we won't try to send another
-     * OACK when the block number wraps back to 0. */
-     oap = NULL;
-   }
-   if (!++block)
-     block = rollover_val;
-   (void)sigsetjmp(timeoutbuf, 1);
-   send_ack:
-     r_timeout = timeout;
-     if (send(peer, ackbuf, acksize, 0) != acksize) {
-       syslog(LOG_WARNING, "tftpd: write(ack): %m");
-       goto abort;
-     }
-     write_behind(file, pf->f_convert);
-     for (;;) {
-       n = recv_time(peer, dp, PKTSIZE, 0, &r_timeout);
-       if (n < 0) {        /* really? */
-         syslog(LOG_WARNING, "tftpd: read: %m");
+ int retries = RETRIES;
+ int timed_out = 0;
+ int r;
+ (void) pf;
+ set_verbose(verbosity);
+ if (oap) {
+   do {
+     if (send(peer, oap, oacklen, 0) != oacklen) {
+       syslog(LOG_WARNING, "tftpd: oack: %m\n");
+       goto abort;
+     }
dp_opcode = ntohs((u_short) dp->th_opcode);
dp_block = ntohs((u_short) dp->th_block);
if (dp_opcode == ERROR)
    goto abort;
if (dp_opcode == DATA) {
    if (dp_block == block) {
        break; /* normal */
    }
    r = recvfrom_flags_with_timeout(peer, pktbuf, sizeof(pktbuf), NULL, TIMEOUT, MSG_PEEK);
    if (r == 0) {
        if (--retries <= 0) {
            timed_out = 1;
            goto abort;
        }
    /* Re-synchronize with the other side */
    (void) synchnet(peer);
    if (dp_block == (block - 1))
        goto send_ack; /* rexmit */
}
/* size = write(file, dp->th_data, n - 4); */
size = writeit(file, &dp, n - 4, pf->f_convert);
if (size != (n - 4)) { /* ahem */
    if (size < 0)
        nak(errno + 100, NULL);
    else
        nak(ENOSPACE, NULL);
    goto abort;
} while (size == segsize);
write_behind(file, pf->f_convert);
(void) fclose(file); /* close data file */
ap->th_opcode = htons((u_short) ACK); /* send the "final" ack */
ap->th_block = htons((u_short) (block));
(void) send(peer, ackbuf, 4, 0);
timeout_quit = 1; /* just quit on timeout */
n = recvv_time(peer, buf, sizeof(buf), 0, &timeout); /* normally times out and quits */
timeout_quit = 0;
if (n >= 4 && /* if read some data */
    dp_opcode == DATA && /* and got a data block */
    block == dp_block) { /* then my last ack was lost */
    (void) send(peer, ackbuf, 4, 0); /* resend final ack */
} while (r == 0);
else {
    do {
        send_ack(peer, NULL, 0);
+ r = recvfrom_flags_with_timeout(peer, pktbuf, sizeof(pktbuf), NULL, TIMEOUT, MSG_PEEK);
+ if (r == 0) {
+     if (--retries <= 0) {
+         timed_out = 1;
+         goto abort;
+     }
+ }
+ } while (r == 0);
}
- abort:
- return;
+
+ r = receiver(peer, NULL, segsize, windowsize, TIMEOUT, file, NULL, NULL);
+ abort:
+ if (timed_out || r == E_TIMED_OUT)
+     syslog(LOG_NOTICE, "Client %s timed out", tmp_p);
+     fclose(file);
}

static const char *const errmsgs[] = {

Found in path(s):
* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wBIp56C/tftp-rfc7440-windowsize.patch
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* /opt/cola/permits/1150398067_1620789177.92/0/tftp-5.2-22.el7.src.rpm-cosi-expand-archive-5wB1p56C/tftp-hpa- 5.2.tar.bz2-cosi-expand-archive-eRZHVQA5/tftp-hpa-5.2/tftpd/tftpd.c
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"
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %(_tmppath)/%{name}-root
%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd
%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}_%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}_%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}_%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}_%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}_%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ".l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ".l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
1.1188 dmidecode 3.5

1.1188.1 Available under license:

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1.1189 glib 2.40.0

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1.1203 log-rotate 3.15.1-r0

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1209 python 2.7.13

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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 (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.

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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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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The `/sys/license` endpoint is used to view and update the license used in Vault.

---

layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
The `/sys/license` endpoint is used to view and update the license used in Vault.
---
# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl \
`--header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.
<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```  

### Sample Request

```bash
$ curl 
  --header "X-Vault-Token: ...
  --request PUT 
  --data @payload.json 
  http://127.0.0.1:8200/v1/sys/license
```

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mgo - MongoDB driver for Go

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BSON library for Go

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related 
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"

    SHA *string `json:"sha,omitempty"
    Size *int `json:"size,omitempty"
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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This Go package is a modified version of

XZ Embedded <http://tukaani.org/xz/embedded.html>

The contents of the testdata directory are modified versions of
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XZ Utils <http://tukaani.org/xz/>

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type Features uint

const FeatureNone Features = 0
func (f Features) HasFeature(flag Features) bool {
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1.1238 libalgorithm-merge-perl 0.08-3
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#  # 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 ($$) { (
        q{<}, @{$$_[0]}, q{|}, @{$$_[1]}, q{>}
    ) },
    },
    ), "n";
    #)), "n";
    #print join(" ", @{
    #    [qw(0 1 @ < 3 | # > 6)]
    # })), "n";

1:
    __END__

1:
    __END__

=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);
This module complements L<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>. See L<Algorithm::Diff> for more information.
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' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', '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 `C<@ancestor>`, `C<@a>`, and `C<@b>`, respectively).

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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* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm
No license file was found, but licenses were detected in source scan.

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);

$strav = traverse_sequences3(\@ancestor, \@a, \@b, {  
    # callbacks  
});

$strav = 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' ],
[ 'l', '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:
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.

ADIFF
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.

BDIFF
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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1.1241 kubernetes-apimachinery 0.18.2

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1.1244 tftp-hpa 5.2
%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%install
rm -rf %{RPM_BUILD_ROOT}
mkdir -p %{RPM_BUILD_ROOT}/%{_bindir}
mkdir -p %{RPM_BUILD_ROOT}/%{_mandir}/man{1,8}
mkdir -p %{RPM_BUILD_ROOT}/%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || : 

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || : 
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers
* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb  2 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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*/

Found in path(s):
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.c
No license file was found, but licenses were detected in source scan.

/* .*- c -*. ****************************************************************************** *
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* as the "OpenBSD" operating system, distributed at

Open Source Used In IOS XR Software 7.7.1 18242
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ install install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/${RPM_BUILD_ROOT}/tftpboot install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ".l" flag to hpa-tftpd for file-logging (#26467)
  - added description for ".l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
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* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
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* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
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= MessagePack

MessagePack[http://msgpack.org] is an efficient binary serialization format. It lets you exchange data among multiple languages like JSON but it's faster and smaller. For example, small integers (like flags or error code) are encoded into a single byte, and typical short strings only require an extra byte in addition to the strings themselves.

If you ever wished to use JSON for convenience (storing an image with metadata) but could not for technical reasons (binary data, size, speed...), MessagePack is a perfect replacement.

```ruby
require 'msgpack'
msg = [1,2,3].to_msgpack  #=> "\x93\x01\x02\x03"
MessagePack.unpack(msg)  #=> [1,2,3]
```

Use RubyGems to install:

gem install msgpack

or build msgpack-ruby and install:

bundle
rake
gem install --local pkg/msgpack

= Use cases

* Store objects efficiently serialized by msgpack on memcached or Redis
* In fact Redis supports msgpack in EVAL-scripts[^eval]
* Upload data in efficient format from mobile devices such as smartphones
* MessagePack works on iPhone/iPad and Android. See also Objective-C[^objc] and Java[^jav] implementations
* Design a portable protocol to communicate with embedded devices
* Check also Fluentd[^fluentd] which is a log collector which uses msgpack for the log format (they say it uses JSON but actually it's msgpack, which is compatible with JSON)
* Exchange objects between software components written in different languages
* You'll need a flexible but efficient format so that components exchange objects while keeping compatibility

= Portability

MessagePack for Ruby should run on x86, ARM, PowerPC, SPARC and other CPU architectures.

And it works with MRI (CRuby) and Rubinius.
Patches to improve portability is highly welcomed.

= Serializing objects

Use *MessagePack.pack* or *to_msgpack*:

```ruby
require 'msgpack'
msg = MessagePack.pack(obj)  # or
msg = obj.to_msgpack
```

== Streaming serialization

Packer provides advanced API to serialize objects in streaming style:

```ruby
# serialize a 2-element array [e1, e2]
pk = MessagePack::Packer.new(io)
pk.write_array_header(2).write(e1).write(e2).flush
```

See [API reference][packer] for details.

= Deserializing objects

Use *MessagePack.unpack*:

[^eval]: http://redis.io/commands/eval
[^objc]: https://github.com/msgpack/msgpack-objectivec
[^jav]: https://github.com/msgpack/msgpack-java
[^fluentd]: http://fluentd.org/
[^packer]: http://ruby.msgpack.org/MessagePack/Packer.html
require 'msgpack'
obj = MessagePack.unpack(msg)

== Streaming deserialization

Unpacker provides advanced API to deserialize objects in streaming style:

```ruby
# deserialize objects from an IO
u = MessagePack::Unpacker.new(io)
u.each do |obj|
  # ...
end
```

or event-driven style which works well with EventMachine:

```ruby
# event-driven deserialization
def on_read(data)
  @u ||= MessagePack::Unpacker.new
  @u.feed_each(data) { |obj|
    # ...
  }
end
```

See [API reference](http://ruby.msgpack.org/MessagePack/Unpacker.html) for details.

= Buffer API

MessagePack for Ruby provides a buffer API so that you can read or write data by hand, not via Packer or Unpacker API.

This [MessagePack::Buffer](http://ruby.msgpack.org/MessagePack/Buffer.html) is backed with a fixed-length shared memory pool which is very fast for small data (≤ 4KB), and has zero-copy capability which significantly affects performance to handle large binary data.

= How to build and run tests

Before building msgpack, you need to install bundler and dependencies.

```ruby
gem install bundler
bundle install
```

Then, you can run the tasks as follows:

* Build

```ruby
bundle exec rake build
```
* Run tests

  bundle exec rake spec

* Generating docs

  bundle exec rake doc

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1.1250 python-setuptools 45.2.0-r0

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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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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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1.1252 findutils 4.7.0-r0

1.1252.1 Available under license :

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Version 3, 29 June 2007

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model, to give anyone who possesses the object code either (1) a
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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written offer to provide the Corresponding Source. This
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with subsection 6b.

d) Convey the object code by offering access from a designated
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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
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e) Convey the object code using peer-to-peer transmission, provided
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A separable portion of the object code, whose source code is excluded
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```

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1.1253 cpio 2.11

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```

1.1254 linux-kernel 5.4.142

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/
*linux/arch/alpha/kernel/es1888.c
 *
 * Init the built-in ES1888 sound chip (SB16 compatible)
 */

1.1255 libedit 3.1

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1.1256 certifi 2018.11.29

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1257 pytoml 0.1.2

1.1257.1 Available under license:

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

Metadata-Version: 1.0
Name: pytoml
Version: 0.1.0
Summary: A parser for TOML-0.4.0
Home-page: https://github.com/avakar/pytoml
Author: Martin Vejnír
Author-email: avakar@ratatanek.cz
License: MIT
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1156519782_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/test/pytoml.egg-info/PKG-INFO
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1.1258 linux-kernel 3.14.23
1.1258.1 Available under license:
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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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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

Marcus Metzler <mocm@metzlerbros.de>
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

Klaus Schmидinger <Klaus.Schmидinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
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.

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#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ''; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ''; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;
my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";
my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
$hunk = new Hunk ($piece, $Context_Lines);
next unless $oldhunk;
if ($hunk->does_overlap($oldhunk)) {
$hunk->prepend_hunk($oldhunk);
} else {
$oldhunk->output_diff(\@f1, \@f2);
}
} continue {
$oldhunk = $hunk;
}
# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM
sub bag {
my $msg = shift;
$msg .= "\n";
warn $msg;
exit 2;
}
# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;
sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference

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# Fields in a Hunk:
# blocks - a list of Block objects
# start  - index in file 1 where first block of the hunk starts
# end    - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#               until but NOT including this one
# after_diff  - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_; 

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};

$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;

my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array->[0]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array->[1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array->[0]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array->[1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
"start1" => $start1,
"start2" => $start2,
"end1" => $end1,
"end2" => $end2,
"blocks" => [ $block,
],
};
bless $hunk, $class;

$hunk->flag_context($context_items);
return $hunk;
}

# Change the "start" and "end" fields to note that context should be added 
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_; 
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $context_items :
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
    $#f1 - $end1 :
    $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_; 
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
         $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_; 

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@
";
    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a ' ' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{'start1'};
    my $hi = $hunk->{'end1'};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{$hunk->{'blocks'}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{'sign'}; # -
            my $offset = $item->{'item_no'} - $low + $num_added;
            $outlist[$offset] =~ s/^ /$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{'sign'}; # +
            my $i = $item->{'item_no'};
            my $offset = $i - $hunk->{'start2'} + $num_removed;
            splice(@outlist,$offset,0,"$op$$fileref2[$i]");
            $num_added++;
        }
    }
    map {s/$/
/} @outlist; # add \n's
    print @outlist;
sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @$_;
    my @blocklist;

    print "***************
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****\n";
    my $low = $hunk->{'start1'};
    my $hi = $hunk->{'end1'};
    if (@blocklist = grep {$_->remove} @{$hunk->{'blocks'}}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->{'item_no'} - $low] =~ s/^/$op/;
            }
        }
        map {s/$/
        print @outlist;
    }

    print "--- $range2 ----\n";
    $low = $hunk->{'start2'};
    $hi = $hunk->{'end2'};
    if (@blocklist = grep {$_->insert} @{$hunk->{'blocks'}}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # + or !
            foreach my $item ($block->insert) {
                $outlist[$item->{'item_no'} - $low] =~ s/$/$op/;
            }
        }
        map {s/$/\n        print @outlist;
    }

    sub context_range {
        # Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;  
my ($start, $end) = (\$hunk->{'start$flag'},\$hunk->{'end$flag'});  
$start++; $end++;  # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;  
return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;  
my ($start, $end) = (\$hunk->{'start$flag'},\$hunk->{'end$flag'});  
$start++; $end++;  # index from 1, not zero
my $length = $end - $start + 1;  
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length == 1 ? "$first,$length" : "$first,$length";
return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;  
my @changes = ();

# This just turns each change into a hash.
   foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = { "sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
   }

my $block = { "changes" => \@changes };

} # end Package Block
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {  
    # what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
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#
# `Diff` program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag(" Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
  foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    printf "%4d$sign %s\n", $lineno+1, $text;
  }
  print "--------\n";
}
exit 1;

sub bag {
  my $msg = shift;
  $msg .= "\n";
  warn $msg;
  exit 2;
}

Found in path(s):
  * /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

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=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 );  # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = ":
    if( ! $diff->Items(2) ) {
        printf "%%d,%%d,%%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%%d,%%d\n",
            $diff->Get(qw( Min1 Max1 ));
    } else {  
        printf "%d,%%d,%%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    }
}
$diff->Get(qw( Max1 Min2 Max2 ));
}
else {
    $sep = "---\n";
    printf "%d,%d-%d,%d\n",
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "<$_" for $diff->Items(1);
print $sep;
print ">$$_" for $diff->Items(2);

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(\n    \@seq1, \@seq2,
    \{ MATCH => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,\n    },
    \&key_generator,
    \@extra_args,
);

traverse_balanced(\n    \@seq1, \@seq2,
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
  a b c d f g h j q z
```

```
  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
  a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
  e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider
A naive approach might start by matching up the \texttt{C<a>} and \texttt{C<b>} that appear at the beginning of each sequence, like this:

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

This finds the common subsequence \texttt{C<a b c z>}. But actually, the LCS is \texttt{C<a x b y c z>}:

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

or

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

=\texttt{head1 USAGE}

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{C<LCS>}, \texttt{C<LCS_length>}, \texttt{C<LCSidx>}, OO interface, \texttt{C<prepare>}, \texttt{C<diff>}, \texttt{C<sdiff>}, \texttt{C<traverse_sequences>}, and \texttt{C<traverse_balanced>}.

=\texttt{head2 C<LCS>}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<LCS>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
\end{verbatim}
Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```perl
my( $idx1, $idx2 ) = LCSidx( @seq1, @seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( @seq1, @seq2 );
```

=head2 C<new>

$diff = Algorithm::Diffs->new( @seq1, @seq2 );
$diff = Algorithm::Diffs->new( @seq1, @seq2, %opts );

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ] Encloses optional arguments
: Is followed by the default value for an optional argument
| Separates alternate return results

Method summary:

```perl
$obj = Algorithm::Diff->new( @seq1, @seq2, [ %opts ]);
$pos = $obj->Next( [ $count : 1 ]);
```
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

$bits = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset();  # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk

C<Reset> returns the object, so, for example, you could use
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);
$copy = $diff->Copy();  $copy->Reset($pos);
$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

$copy = $diff->Copy();  $copy->Base( 0 );
$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);
$copy = $diff->Copy()->Reset();

=item C<Diff>

<bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are
different between the two sequences. It actually returns one of the
follow 4 values:

=over 4

=over 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

$scount = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context). If the current hunk contains only deletions, then C<< $diff->Items(2) >>
will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item C<Range>

```
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>

```
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```
C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.  

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));  
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values.  You pass in a list of the names of the values you want returned.  Each name must match one of the following regexes:

/^(?-\d+)?(\w|\d)[12]$\i
/^(range[12]|same|diff|base)$\i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required).  The optional number before "min" or "max" is the base to use.  So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.
$prep = \text{prepare}(\text{@seq1}, \text{&keyGen})$
for $i (0 .. 10_000)\$
{
    \text{@lcs} = \text{LCS}(\text{$\text{seq}[i]$}, \text{$\text{prep}$}, \text{&keyGen})$
    \# \text{do something useful with @lcs}
}

Using \text{C<prepare>} provides a performance gain of about 50% when calling \text{LCS}
many times compared with not preparing.

=head2 \text{C<diff>}

@diffs = \text{diff}(\text{@seq1}, \text{@seq2})
$diffs\_ref = \text{diff}(\text{@seq1}, \text{@seq2})$

\text{C<diff>} computes the smallest set of additions and deletions necessary
to turn the first sequence into the second, and returns a description
of these changes. The description is a list of \text{I<hunks>}; each hunk
represents a contiguous section of items which should be added,
deleted, or replaced. (Hunks containing unchanged items are not
included.)

The return value of \text{C<diff>} is a list of hunks, or, in scalar context, a
reference to such a list. If there are no differences, the list will be
empty.

Here is an example. Calling \text{C<diff>} for the following two sequences:

a b c e h j l m n p
b c d e f j k l m r s t

would produce the following list:

(  
    [ [ '-', 0, 'a' ] ],
    [ [ '+', 2, 'd' ] ],
    [ [ '-', 4, 'h' ],
      [ '+', 4, 'f' ] ],
    [ [ '+', 6, 'k' ] ],
    [ [ '-', 8, 'n' ],
      [ '-', 9, 'p' ],
      [ '+', 9, 'r' ],
      [ '+', 10, 's' ],
    ]
)
There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

@sdiffs = sdiff( @seq1, @seq2 );

$sdiffs_ref = sdiff( @seq1, @seq2 );

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
</tr>
</thead>
<tbody>
<tr>
<td>before</td>
<td>after</td>
</tr>
<tr>
<td>old</td>
<td>&lt;</td>
</tr>
<tr>
<td>-</td>
<td>&gt;</td>
</tr>
</tbody>
</table>

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

results in
C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L<KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<diff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```perl
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
#   @a      @b       @a       @b
#  start   start   values   values
# 0,  0, # =
# 0,  0, # a !
# 1,  0, # b c = b c
# 3,  2, # ! d
# 3,  3, # e = e
# 4,  4, # f ! h
# 5,  5, # j = j
# 6,  6, # ! k
# 6,  7, # l m = l m
# 8,  9, # n p ! r s t
# 10, 12, #
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the
above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into $@seq2$ (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items $C<$diff[0]> through $C<$diff[2] - 1> of the first sequence and contains items $C<$diff[1]> through $C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair  2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And $C<$0..-1$> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for
the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

    @hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
    @hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];

# or
    @hunk2a = @a[ 0 .. 1-1 ];
    @hunk2b = @b[ 0 .. 0-1 ];
# or
    @hunk2a = @a[ 0 .. 0 ];
    @hunk2b = @b[ 0 .. -1 ];
# or
    @hunk2a = ( 'a' );
    @hunk2b = ( );

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

    @hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
    @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];

# or
    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];
# or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
# or
    @hunk3a = qw( b c );
    @hunk3a = qw( b c );

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of
sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. \texttt{C<traverse\_sequences>} will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements \texttt{C<$A[i]>$} and \texttt{C<$B[j]>$} which are equal and which are part of the LCS, there will be some moment during the execution of \texttt{C<traverse\_sequences>} when arrow A is pointing to \texttt{C<$A[i]>$} and arrow B is pointing to \texttt{C<$B[j]>$}. When this happens, \texttt{C<traverse\_sequences>} will call the \texttt{C<MATCH>} callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. \texttt{C<traverse\_sequences>} will advance that arrow and will call the \texttt{C<DISCARD\_A>} or the \texttt{C<DISCARD\_B>} callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then \texttt{C<traverse\_sequences>} will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to \texttt{C<traverse\_sequences>} are the two sequences to traverse, and a hash which specifies the callback functions, like this:

\begin{verbatim}
traverse_sequences(
    @seq1, @seq2,
    {
        MATCH => $callback_1,
        DISCARD\_A => $callback_2,
        DISCARD\_B => $callback_3,
    }
);
\end{verbatim}

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, \texttt{C<traverse\_sequences>} will call the \texttt{C<A\_FINISHED>} callback when it advances arrow B, if there is such a function; if not it will call \texttt{C<DISCARD\_B>} instead. Similarly if arrow B finishes first, \texttt{C<traverse\_sequences>} returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

\texttt{C<traverse\_sequences>} may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```perl
traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    },
    undef,  # default key-gen
    $myArgument1,
    $myArgument2,
    $myArgument3,
);
```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=HEAD2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```perl
traverse_balanced(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
        CHANGE    => $callback_4,
    });
```

If no C<CHANGE> callback is specified, C<traverse_balanced>
will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "".".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name =&gt; ", ssn =&gt; ", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
```
my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).
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Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason’s, but Diff.pm’s code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<diff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm
1.1261 selinux-sandbox 3.0-r0

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1.1274 libx11 1.6.5

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1.1275 spf13-pflag 1.0.5

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1.1276 netns 0.0.0-20191106174202-0a2b9b5464df

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1.1277 libalgorithm-diff-xs-perl 0.04 5+b1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-targ-gz/Algorithm-Diff-XS-0.04/README
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>14.7/s</td>
<td>--</td>
<td>-98%</td>
</tr>
<tr>
<td>806/s</td>
<td>5402%</td>
<td>--</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::compact_diff(@data)

=head1 SEE ALSO

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

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

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=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-targ-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

---
abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
name: Algorithm-Diff-XS
no_index:
directory:
  - inc
  - t
requires:
  Algorithm::Diff: 1.19
perl: 5.6.0
version: 0.01

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/META.yml
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/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm
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.
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.

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

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.

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.

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.

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>. 

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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:

```c
#define NEED_function
```

For a global function, use:

```c
#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>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</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 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<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

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

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report using the CPAN Request Tracker at [http://rt.cpan.org/](http://rt.cpan.org/).

Please include the following information:

1. The complete output from running "perl -V"
2. This file.
3. The name and version of the module you were trying to build.
4. A full log of the build that failed.
5. Any other information that you think could be relevant.

For the latest version of this code, please get the `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,
    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! filter! 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.
";
}

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
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    CvSTASH||
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    EXTERN_C[5.005000]p
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    GIMME_V[5.004000]n
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PL_stack_sp[5.004050]\np
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POPPx[5.005030]\nn
POPPp\nn
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PTR2UV[5.006000]\np
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PTRV[5.006000]\np
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PUSHI\n
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SVt_PVMG
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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};
  }}

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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";
    }
    else {
      $hint = ";
    }
  }
  $hint = $1 if m{\s*$rccs\s+Hint:\s+\(\w+\)\s*$};
  $replace = $1 if m{\s*$rccs\s+Replace:\s+\(\w+\)\s*$};
  $replace{$2} = $1 if $replace and m{\s*#\s*define\s+\(\w+\)\s*$\s+\(\w+\)};
  $replace{$2} = $1 if m{\s*#\s*define\s+\(\w+\)\s*$\s+\(\w+\)}; $rccs + Replace\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+\(\w+\)\s+\(\w+\)+ \$rcce\s+
  $need{$1} = 1 if m{\s+\defined\s+\(\w+\)\s+\(\w+\)}};
  }

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
";
    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 "Shints{$f}" if exists $hints{$f};
    $info++;
}
unless ($info) {
    print "No portability information available.\n";
    $count++;
}
if ($count > 0) {
    print "\n";
} 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 ch 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 {
defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*$ppport/);my $func;
for $func (keys %API) {
  my $match = $func;
  $match = "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$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) {
            $file{uses}{$func}[$_] = 0 unless exists $file{uses}{$func}[$_];
          }
        }
      }
    }
    for ($func, @deps) {
      if (exists $need{$_}) {
        $file{needs}{$_} = 'static';
      }
    }
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /\b$func\b/) {
      ...
while ($c =~ /^$HS*#$HS*define$HS+(NEED_((\w+?)(_GLOBAL)?)b/mg) { 
    if (exists $need{$2}) { 
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++; 
    } 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 $target = shift @targets; 
        my @t = grep $files{$_}{needed_global}{$need}, @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*)\([^\s)]*\)\([^\s)*\)\}\s*}{ $1 . ($2 eq 'aTHX' ? '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*\(\s*aTHX_?\)\([^\s)*\)\}\s*}{ $func$1\}g);
    }
}

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

$file{needs_inc_ppport} = keys %{$file{uses}};

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");
        }
        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: $!";)
    }
}
else if (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            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);
    }

    if (!defined $diff and can_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    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'\n"
    }
    $ver =~ s/_//g;
$ver =~ s/$/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 "cannot parse version '$ver'
    }
}

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'
        }
        $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__

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1.1278 zlib 1.2.1

1.1278.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1, November 17th, 2003

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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).
*/

1.1279 jcmturner-dnsutils 1.0.1

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1.1281 yaml 1.1.0

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io.helidon.config.yaml.internal.YamlConfigParser

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# Contributions to the urllib3 project

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

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

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* 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

* Stanislaw 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.

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

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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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MA

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Subject: Re: Mark Adamson license in OpenLDAP source
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-Mark
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Regards, Kurt

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1.1291 netlink 1.1.0

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1.1302 openmp 10.0.1-r0

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:    mov v0.d[1], v0.d[0]
; CHECK-NEXT: ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}

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file.

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BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
CF246:
; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
 ; CHECK-LABEL: test_sitofp_fixed:

 ; First, extend each i32 to i64
 ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0

 ; Next, convert each to double.
 ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO:v[0-9]+]]
 ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
 ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
 ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
}
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s

target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %%[M4] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %%[C3] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %%%[M5:const_mat[0-9]?] = add i32 %%[C3], 7
; CHECK-NEXT: %13 = inttoptr i32 %%[M5] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %%%[M6:const_mat[0-9]?] = add i32 %%[C1], 80
; CHECK-NEXT: %14 = inttoptr i32 %%[M6] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %%%[C1:const[0-9]?] = bitcast i32 805874752 to i32
; CHECK-DAG: %%%[C2:const[0-9]?] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %%%[C2] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %%%[M1:const_mat[0-9]?] = add i32 %%%[C2], 4
; CHECK-NEXT: %2 = inttoptr i32 %%%[M1] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %%%[M2:const_mat[0-9]?] = add i32 %%%[C2], 32
; CHECK-NEXT: %4 = inttoptr i32 %%%[M2] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %%%[M3:const_mat[0-9]?] = add i32 %%%[C2], 62
; CHECK-NEXT: %6 = inttoptr i32 %%%[M3] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %%%[C1] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %%%[M4:const_mat[0-9]?] = add i32 %%%[C1], 22
; CHECK-NEXT: %10 = inttoptr i32 %%%[M4] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -passes='attributor'-aa-pipeline='basic-aa'-attributor-disable=false-attributor-max-iterations-verify-attributor-max-iterations=2 < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: %[TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT: store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: %[TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT: store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
    bb:
        %tmp = load <8 x i64>, <8 x i64>* %arg, align 32
        %tmp2 = load <8 x i64>, <8 x i64>* %arg1, align 32
        %tmp3 = bitcast <8 x i64>* %tmp to i8*
        call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
        call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
        %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
        store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
        ret void
    }

    ; This should promote
    define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
        ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
        ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
        bb:
        bb:
            %tmp = alloca <8 x i64>, align 32
            %tmp2 = alloca <8 x i64>, align 32
            %tmp3 = bitcast <8 x i64>* %tmp to i8*
            call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
            call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
            %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
            store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
            ret void
    }

    define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
        ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
        ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
        bb:
            %tmp = alloca <8 x i64>, align 32
            %tmp2 = alloca <8 x i64>, align 32
            %tmp3 = bitcast <8 x i64>* %tmp to i8*
            call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
            call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
            %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
            store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
            ret void
    }
}
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\[
\begin{align*}
\text{CHECK-NEXT:} & \quad [[[\text{TMP4}:%.*]]] = \text{load} <8 \times i64>, <8 \times i64>* [[[\text{TMP2}]]], \text{align} 32 \\
\text{CHECK-NEXT:} & \quad \text{store} <8 \times i64> [[[\text{TMP4}]]], <8 \times i64>* [[[\text{ARG}]]], \text{align} 2 \\
\text{CHECK-NEXT:} & \quad \text{ret} \text{void}
\end{align*}
\]

\[
\begin{align*}
%\text{tmp} &= \text{alloca} <8 \times i64>, \text{align} 32 \\
%\text{tmp2} &= \text{alloca} <8 \times i64>, \text{align} 32 \\
%\text{tmp3} &= \text{bitcast} <8 \times i64>* %\text{tmp} \text{ to i8}* \\
\text{call} \text{void} \@\text{llvm.memset.p0i8.i64}(\text{i8}* \text{align} 32 %\text{tmp3}, \text{i8} 0, \text{i64} 32, \text{i1} \text{false}) \\
\text{call} \text{fastcc} \text{void} \@\text{callee_avx512_legal512_prefer256\_call\_avx512\_legal512\_prefer256}(<8 \times i64>* %\text{tmp2}, <8 \times i64>* %\text{tmp}) \\
%\text{tmp4} &= \text{load} <8 \times i64>, <8 \times i64>* %\text{tmp2}, \text{align} 32 \\
\text{store} <8 \times i64> %\text{tmp4}, <8 \times i64>* %\text{arg}, \text{align} 2 \\
\text{ret} \text{void}
\end{align*}
\]

\[
\begin{align*}
\text{define internal fastcc} \text{void} \@\text{callee\_avx512\_legal512\_prefer512\_call\_avx512\_legal512\_prefer256}(<8 \times i64>* %\text{arg}, <8 \times i64>* \text{readonly} %\text{arg1}) \#1 \\
\text{CHECK-LABEL:} \text{define } \@[^{[@]+}]\@\text{callee\_avx512\_legal512\_prefer512\_call\_avx512\_legal512\_prefer256} \\
\text{CHECK-SAME:} (<8 \times i64>* \text{noalias nocapture nofree nonnull writeonly align} 32 \text{dereferenceable}(64) [[\text{ARG}:%.*]], <8 \times i64>* \text{noalias nocapture nofree nonnull readonly align} 32 \text{dereferenceable}(64) [[\text{ARG1}:%.*]]) \\
\text{CHECK-NEXT:} \text{bb:} \\
%\text{tmp} &= \text{alloca} <8 \times i64>, <8 \times i64>* %\text{arg1} \\
\text{store} <8 \times i64> %\text{tmp}, <8 \times i64>* %\text{arg} \\
\text{ret} \text{void}
\end{align*}
\]

\[
\begin{align*}
\text{define} \text{void} \@\text{avx512\_legal512\_prefer512\_call\_avx512\_legal512\_prefer256}(<8 \times i64>* %\text{arg}) \#0 \\
\text{CHECK-LABEL:} \text{define } \@[^{[@]+}]\@\text{avx512\_legal512\_prefer512\_call\_avx512\_legal512\_prefer256} \\
\text{CHECK-SAME:} (<8 \times i64>* \text{nocapture writeonly} [[\text{ARG}:%.*]]) \\
\text{CHECK-NEXT:} \text{bb:} \\
%\text{tmp} &= \text{alloca} <8 \times i64>, <8 \times i64>, \text{align} 32 \\
%\text{tmp2} &= \text{alloca} <8 \times i64>, <8 \times i64>, \text{align} 32 \\
%\text{tmp3} &= \text{bitcast} <8 \times i64>* [[\text{TMP}]] \text{ to i8}* \\
\text{call} \text{void} \@\text{llvm.memset.p0i8.i64}(\text{i8* nonnull align} 32 \text{dereferenceable}(64) [[\text{TMP3}]], \text{i8} 0, \text{i64} 32, \text{i1} \text{false}) \\
\text{call} \text{fastcc} \text{void} \@\text{callee\_avx512\_legal512\_prefer256\_call\_avx512\_legal512\_prefer256}(<8 \times i64>* %\text{tmp2}, <8 \times i64>* %\text{tmp}) \\
%\text{tmp4} &= \text{load} <8 \times i64>, <8 \times i64>* %\text{tmp2}, \text{align} 32 \\
\text{store} <8 \times i64> %\text{tmp4}, <8 \times i64>* %\text{arg}, \text{align} 2 \\
\text{ret} \text{void}
\end{align*}
\]
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {{\[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT: ret void

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{\[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void

  bb:
  %tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [TMP], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [TMP:%.*] = alloca <8 x i64>, align 32
; CHECK-NEXT: [TMP2:%.*] = alloca <8 x i64>, align 32
; CHECK-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [TMP] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP3]])
; CHECK-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [TMP4], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {  
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256  
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])  
; CHECK-NEXT: bb:  
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32  
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32  
; CHECK-NEXT: ret void
;
bb:  
%tmp = load <8 x i64>, <8 x i64>* %arg  
store <8 x i64> %tmp, <8 x i64>* %arg  
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {  
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256  
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])  
; CHECK-NEXT: bb:  
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*  
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])  
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32  
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2  
; CHECK-NEXT: ret void
;
bb:  
%tmp = alloca <8 x i64>, align 32  
%tmp2 = alloca <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define ([^@]+)@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nfree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nfree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define ([^@]+)@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) noalias nocapture nofree nonnull align 32 dereferenceable(64) [[TYP2]], <8 x i64>* noalias nocapture nofree nonnull align 32 dereferenceable(64) [[TYP3]]]
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TYP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void
:
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %arg)
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP3]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
:
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP]], i8 0, i64 32, i1 false)
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
}
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd

; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq

    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
void define add512(<16 x i32> %a, <16 x i32> %b, <16 x i32> %c) "min-legal-vector-width"="512" {
  CHECK-LABEL: add512:
  CHECK:    # %bb.0:
  CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
  CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %d = load <16 x i32>, %a
  %e = load <16 x i32>, %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, %c
  ret void
}

void define avg_v64i8_256(<64 x i8> %a, <64 x i8> %b) "min-legal-vector-width"="256" {
  CHECK-LABEL: avg_v64i8_256:
  CHECK:    # %bb.0:
  CHECK-NEXT:  vmovdqa (%rsi), %ymm0
  CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
  CHECK-NEXT:  vpavgb (%rdi), %ymm0, %ymm0
  CHECK-NEXT:  vpavgb 32(%rdi), %ymm1, %ymm1
  CHECK-NEXT:  vmovdqu %ymm1, (%rax)
  CHECK-NEXT:  vmovdqu %ymm0, (%rax)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %1 = load <64 x i8>, %a
  %2 = load <64 x i8>, %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, %3
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6
  %8 = trunc <64 x i32> %7
  store <64 x i8> %8, undef, align 4
  ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
  CHECK-LABEL: avg_v64i8_512:  
  CHECK:    # %bb.0:  
  CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
  CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
  CHECK-NEXT: vmovdqu64 %zmm0, (%rax)  
  CHECK-NEXT: vzeroupper  
  CHECK-NEXT: retq  
  %1 = load <64 x i8>, <64 x i8>* %a  
  %2 = load <64 x i8>, <64 x i8>* %b  
  %3 = zext <64 x i8> %1 to <64 x i32>  
  %4 = zext <64 x i8> %2 to <64 x i32>  
  %5 = add nuw nsw <64 x i32> %3, %4  
  %6 = add nuw nsw <64 x i32> %5, %4  
  %7 = lshr <64 x i32> %6, %3  
  %m = mul nsw <32 x i32> %a, %b  
  %ret = add <16 x i32> %odd, %even  
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
  CHECK-LABEL: pmaddwd_32_256:  
  CHECK:    # %bb.0:  
  CHECK-NEXT: vmovdqa (%rdi), %ymm0  
  CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
  CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1  
  CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
  CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
  CHECK-NEXT: vzeroupper  
  CHECK-NEXT: retq  
  %A = load <32 x i16>, <32 x i16>* %APtr  
  %B = load <32 x i16>, <32 x i16>* %BPtr  
  %a = sext <32 x i16> %A to <32 x i32>  
  %b = sext <32 x i16> %B to <32 x i32>  
  %m = mul nsw <32 x i32> %a, %b  
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
  %ret = add <16 x i32> %odd, %even  
}

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store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: pmaddwd_32_512:  
    ; CHECK: # %bb.0:  
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
    ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0  
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: psubus_64i8_max_256:  
    ; CHECK: # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1  
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0  
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %x = load <64 x i8>, <64 x i8>* %xptr  
    %y = load <64 x i8>, <64 x i8>* %yptr  
    %cmp = icmp ult <64 x i8> %x, %y  
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
    %res = sub <64 x i8> %max, %y  
    store <64 x i8> %res, <64 x i8>* %zptr  
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: psubus_64i8_max_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
 ; CHECK-NEXT:   vpsubusb (%rsi), %zmm0, %zmm0
 ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
 ; CHECK-NEXT:   vzeroupper
 ; CHECK-NEXT:   retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: _Z9test_charPcS_i_256:
 ; CHECK:       # %bb.0: # %entry
 ; CHECK-NEXT:     movl %edx, %eax
 ; CHECK-NEXT:     vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT:     xorl %ecx, %ecx
 ; CHECK-NEXT:     vpxor %xmm1, %xmm1, %xmm1
 ; CHECK-NEXT:     vpxor %xmm2, %xmm2, %xmm2
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT:  .LBB8_1: # %vector.body
 ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
 ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
 ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
 ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
 ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm1
 ; CHECK-NEXT:    vpmaddwd %ymm5, %ymm3, %ymm3
 ; CHECK-NEXT:    vpxor %xmm1, %ymm1, %ymm1
 ; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
 ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
 ; CHECK-NEXT:    vpxor %xmm2, %ymm2, %ymm2
 ; CHECK-NEXT:    addq $32, %rcx
 ; CHECK-NEXT:    cmpq %rcx, %rax
 ; CHECK-NEXT:    jne .LBB8_1
 ; CHECK-NEXT:    # %bb.2: # %middle.block
 ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
 ; CHECK-NEXT:    vpxor %ymm1, %ymm1, %ymm1
 ; CHECK-NEXT:    vpxor %ymm0, %ymm0, %ymm0
 ; CHECK-NEXT:    veextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT:    vpxor %ymm1, %xmm0, %ymm0
 ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
  CHECK-LABEL: __Z9test_charPcS_i_512:  
  CHECK: # %bb.0: # %entry  
  CHECK-NEXT: movl %edx, %eax  
  CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
  CHECK-NEXT: xorl %ecx, %ecx  
  CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
  CHECK-NEXT: .p2align 4, 0x90  
  .LBB9_1: # %vector.body  
  # =>This Inner Loop Header: Depth=1  
  CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2  
  CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3  
  CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2  
  CHECK-NEXT: vpadd %zmm1, %zmm2, %zmm1  
  CHECK-NEXT: addq $32, %rcx  
  CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0  
  CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1  
  CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
  CHECK-NEXT: vpaddd %zmm0, %zmm0, %zmm0  
  CHECK-NEXT: vpmovd %xmm0, %eax  
  CHECK-NEXT: retq  
  entry:  
    %3 = zext i32 %2 to i64  
    br label %vector.body  
  }
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> <bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> <bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:

; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00  
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT:  .p2align 4, 0x90  
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:  #=>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm2  
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2, %xmm2  
; CHECK-NEXT:  vpadd %ymm1, %ymm2, %ymm1  
; CHECK-NEXT:  addq $4, %rax  
; CHECK-NEXT:  jne .LBB10_1  
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %ymm0, %ymm1, %ymm0  
; CHECK-NEXT:  vextracti128 %s1, %ymm0, %xmm1  
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]  
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT:  vmovd %ymm0, %eax  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  

entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]  
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]  
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index  
  %1 = bitcast i8* to <16 x i8>  
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4  
  %2 = zext <16 x i8> %wide.load to <16 x i32>  
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index  
  %4 = bitcast i8* %3 to <16 x i8>  
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4  
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>  
  %6 = sub ns <16 x i32> %2, %5  
  %7 = icmp sgt <16 x i32> %6, %i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>  
  %8 = sub ns <16 x i32> zeroinitializer, %6  
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8  
  %10 = add ns <16 x i32> %9, %vec.phi  
  %index.next = add i64 %index.next, 1024  
  br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf >
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf2 >
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf3 >
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf4 >
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
entry:
br label %vector.body
}
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelemeptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelemeptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, i16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, i16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, i16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, i16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol6f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
}
; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i1> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 S1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: test_16f32toub_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
 ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
 ; CHECK-NEXT:    vpmovd2m %ymm1, %k0
 ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
 ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
 ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
 ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
 ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
 ; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: test_16f32toub_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
 ; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
 ; CHECK-NEXT:    vpmovd2m %zmm1, %k0
 ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %zmm1
 ; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
 ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
 ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
 ; CHECK-NEXT:    vmovdqu16 %zmm0, %zmm0 {%k1} {z}
 ; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: test_16f32tosb_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
 ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: test_16f32tosb_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
 ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: test_16f32tosb_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
 ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: mul256:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-AVX512-NEXT:    vpunpckhwb {{.*#+}} ymm4 =
    ; CHECK-AVX512-NEXT:        ymm3[8],ymmm0[8],ymmm3[9],ymmm0[9],ymmm3[10],ymmm0[10],ymmm3[11],ymmm0[11],ymmm3[12],ymmm0[12],ymmm3[13 ],ymmm0[13],ymmm3[14],ymmm0[14],ymmm3[15],ymmm0[15],ymmm3[24],ymmm0[24],ymmm3[25],ymmm0[25],ymmm3[26],ymmm0[26],ymmm3[27],ymmm0[27],ymmm3[28],ymmm0[28],ymmm3[29],ymmm0[29],ymmm3[30],ymmm0[30],ymmm3[31],ymmm0[ 31]
    ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
    ; CHECK-AVX512-NEXT:        ymm1[8],ymmm0[8],ymmm1[9],ymmm0[9],ymmm1[10],ymmm0[10],ymmm1[11],ymmm0[11],ymmm1[12],ymmm0[12],ymmm1[13 ],ymmm0[13],ymmm1[14],ymmm0[14],ymmm1[15],ymmm0[15],ymmm1[24],ymmm0[24],ymmm1[25],ymmm0[25],ymmm1[26],ymmm0[26],ymmm1[27],ymmm0[27],ymmm1[28],ymmm0[28],ymmm1[29],ymmm0[29],ymmm1[30],ymmm0[30],ymmm1[31],ymmm0[ 31]
    ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
    ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
    ; CHECK-AVX512-NEXT:    vmpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:   vpunpcklbw {{.*#+}} ymm3 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-AVX512-NEXT:   vpunpcklbw {{.*#+}} ymm1 = ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-AVX512-NEXT:   vpunpcklbw {{.*#+}} ymm4 = ymm4[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm2 = ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm3 = ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm4 = ymm4[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm5 = ymm5[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm4[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm5[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retnq

; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm4[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm5[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
define void @mul512(<64 x i8>*, <64 x i8>*, <64 x i8>*, <64 x i8>*) "min-legal-vector-width"="512" {
  ; CHECK-AVX512-LABEL:  mul512:
  ; CHECK-AVX512:      # %bb.0:
  ; CHECK-AVX512-NEXT:    vmovdq %ymm0, (%rdx)
  ; CHECK-AVX512-NEXT:    vmovdq %ymm1, 32(%rdx)
  ; CHECK-AVX512-NEXT:    vzeroupper
  ; CHECK-AVX512-NEXT:    retq

  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],
zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],
zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[51],
zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vptestnmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvmmasked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i32> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvmmasked.load.v4i32.p0v4i32(<4 x i32>* %trigger, %i32, <4 x i1>, <4 x i32>) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: llvmmasked.load.v4i32.p0v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i8:  
; CHECK:   # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovqb %ymm3, %xmm3  
; CHECK-NEXT: vpmovqb %ymm2, %xmm2  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]  
; CHECK-NEXT: vpmovqb %ymm1, %xmm1  
; CHECK-NEXT: vpmovqb %ymm0, %xmm0  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
  
%a = load <16 x i64>, <16 x i64>* %x  
%b = trunc <16 x i64> %a to <16 x i32>  
ret <16 x i32> %b  
}  

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i32_v16i8:  
; CHECK:   # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vpmovdb %ymm1, %xmm1  
; CHECK-NEXT: vpmovdb %ymm0, %xmm0  
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
  
%a = load <16 x i32>, <16 x i32>* %x  
%b = trunc <16 x i32> %a to <16 x i8>  
ret <16 x i8> %b  
}  

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  

; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT: vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]

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define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpckuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm0, %ymm0
; CHECK-VBMI-NEXT: retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <32 x i16>* %x
%c = trunc <32 x i16> %b to <32 x i16>
ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmsraq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpmsraq $48, (%rdi), %ymm2
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT: vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = ashr <8 x i64> %a, <8 x i64>* %x
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    %a = load <16 x i32>, <16 x i32>* %x
    %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>  
    %c = trunc <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    %a = load <32 x i16>, <32 x i16>* %x
    %b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>  
    %c = trunc <32 x i16> %b to <32 x i8>
    ret <32 x i8> %c
}
define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sext_v16i8_v16i64:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vpmovsxbw %xmm0, %ymm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT: vpmovsxwq %xmm1, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
    ; CHECK-NEXT: vpmovsxwq %xmm3, %ymm3
    ; CHECK-NEXT: vpmovsxwq %xmm0, %ymm0
    ; CHECK-NEXT: vpmovsxwq %xmm2, %ymm2
    ; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = zext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, <16 x i64>* %y
    ret void
}

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1
    ; CHECK-NEXT: kshiftrb $4, %k1, %k2
    ; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 [%k2]
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" 
    { 
        ; CHECK-LABEL: vselect_split_v8i32_setcc: 
        ; CHECK:       # %bb.0: 
        ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2 
        ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3 
        ; CHECK-NEXT:    vpcmpeqd %ymm1, %ymm0, %k1 
        ; CHECK-NEXT:    kshiftrb $4, %k1, %k2 
        ; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2} 
        ; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1} 
        ; CHECK-NEXT:    vmovdqa %ymm2, (%rdx) 
        ; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx) 
        ; CHECK-NEXT:    vzeroupper 
        ; CHECK-NEXT:    retq 
        %x = load <8 x i64>, <8 x i64>* %p 
        %y = load <8 x i64>, <8 x i64>* %q 
        %a = icmp eq <8 x i32> %s, %t 
        %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y 
        store <8 x i64> %b, <8 x i64>* %r 
        ret void 
    } 

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" 
    { 
        ; CHECK-LABEL: vselect_split_v16i8_setcc: 
        ; CHECK:       # %bb.0: 
        ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2 
        ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3 
        ; CHECK-NEXT:    vpcmpeqb %xmm1, %xmm0, %k1 
        ; CHECK-NEXT:    kshiftrw $8, %k1, %k2 
        ; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2} 
        ; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1} 
        ; CHECK-NEXT:    vmovdqa %ymm2, (%rdx) 
        ; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx) 
        ; CHECK-NEXT:    vzeroupper 
        %x = load <16 x i8>, <16 x i8>* %p 
        %y = load <16 x i8>, <16 x i8>* %q 
        %a = icmp eq <16 x i32> %s, %t 
        %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y 
        store <16 x i32> %b, <16 x i32>* %r 
        ret void 
    }
define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: vselect_split_v16i16_setcc:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
 ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
 ; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
 ; CHECK-NEXT: kshiftrw $8, %k1, %k2
 ; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
 ; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
 ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
 ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %x = load <16 x i32>, <16 x i32>* %p
 %y = load <16 x i32>, <16 x i32>* %q
 %a = icmp eq <16 x i8> %s, %t
 %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
 store <16 x i32> %b, <16 x i32>* %r
 ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
 ; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
 ; CHECK-NEXT: vpermq \{{.*#+}\} ymm0 = ymm0\[0,2,1,3\]
 ; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %a = load <16 x i32>, <16 x i32>* %p
 %b = icmp slt <16 x i32>, %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255,
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16 x i8>
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
  %a = load <16 x i32>, <16 x i32>* %p
  %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
  %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %c
  %d = icmp sgt <16 x i32> %c, zeroinitializer
  %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
  %f = trunc <16 x i32> %e to <16 x i8>
  store <16 x i8> %f, <16 x i8>* %q
  ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
  %a = load <64 x i1>, <64 x i1>* %p
  %b = icmp slt <64 x i1> %a, <i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255, i1 255>
  %c = select <64 x i1> %b, <64 x i1> %a, <64 x i1> %c
  %f = trunc <64 x i1> %c to <64 x i8>
  ret <64 x i8> %f
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
  %a = load <64 x i8>, <64 x i8>* %p
  %b = icmp slt <64 x i8> %a, <i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255, i8 255>
  %c = select <64 x i1> %b, <64 x i8> %a, <64 x i8> %c
  %f = trunc <64 x i8> %c to <64 x i8>
  ret <64 x i8> %f
}
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $53, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFFEFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $17, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $47, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-131073, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $16, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $46, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-262145, %rax # imm = 0xFFFBBFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $19, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $45, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-524289, %rax # imm = 0xFFF7FFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $18, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $44, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $21, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $43, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $20, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $42, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4194305, %rax # imm = 0xFFF8FFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $23, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrq $27, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-137438953473, %rax # imm = 0xFFFFFDFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $4, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $26, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-274877906945, %rax # imm = 0xFFFFFBBFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $7, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $25, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-549755813889, %rax # imm = 0xFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $6, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $24, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1099511627777, %rax # imm = 0xFFFFFEFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $9, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $8, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $22, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4398046511105, %rax # imm = 0xFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $11, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $21, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $10, %k1, %k2
; CHECK-NEXT:     kshiftrd $19, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $13, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.2251799813685249, %rax # imm = 0xFFFFFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $18, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $12, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $21, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $11, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.9007199254740993, %rax # imm = 0xFDFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $20, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $10, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.18014398509481985, %rax # imm = 0xFBFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $23, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $9, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.36028797018963969, %rax # imm = 0xFEFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $22, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $8, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.72057594037927937, %rax # imm = 0xFEDFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT:     kmovq %k2, %k0, %k0
; CHECK-NEXT:     kshiftrd $25, %k1, %k2
; CHECK-NEXT:     kshiflq $63, %k2, %k2
; CHECK-NEXT:     kshiftrq $7, %k2, %k2
; CHECK-NEXT:     korq %k2, %k0, %k0
; CHECK-NEXT:     movabsq $.144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFF
; CHECK-NEXT:     kmovq %rax, %k2
; CHECK-NEXT: retq
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 2, i32 3, i32 2, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, %s, %i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK: # %bb.0:
; CHECK-NEXT: kmovq %{.*}(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, %{.*}(%rip)
; CHECK-NEXT: movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT: retq
  %1 = alloca i32, align 4
  %2 = load i64, i64* @mem64_src, align 8
  %3 = call i64 asm "", ",={dirflag},~{fpsr},~{flags}"(i64 %2)
  store i64 %3, i64* @mem64_dst, align 8
  %4 = load i32, i32* %1, align 4
  ret i32 %4
}
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add_llvm_library(lldbPluginObjectContainerBSDArchive PLUGIN
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define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {  
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512  
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])  
  ; CHECK-NEXT: bb:  
  ; CHECK-NEXT: store <8 x i64>, <8 x i64>* [[ARG1_VAL]]  
  ; CHECK-NEXT: ret void  
  
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg1  
  store <8 x i64> %tmp, <8 x i64>* %arg  
  ret void  
}
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define [[[^@]+]]@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT:  ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ; CHECK-LABEL: define [[[^@]+]]@avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT:  ret void
    
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    ; CHECK-LABEL: define [[[^@]+]]@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    }
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  ; CHECK-LABEL: define ({{[^@]+}}) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* {{ARG:.*}})
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  ; CHECK-LABEL: define ({{[^@]+}}) @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* {{ARG:.*}}, <8 x i64> {{ARG1_VAL:.*}})
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define ({{[^@]+}}) @avx2_legal512_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
attributes #0 = [ inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" ]
attributes #1 = [ inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" ]
attributes #2 = [ inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" ]
attributes #3 = [ inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" ]
attributes #4 = [ inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" ]
attributes #5 = [ argmemonly nounwind ]

RUN: llc -march=hexagon < %s
REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

    while.body.lr.ph: ; preds = %entry
        br label %while.body

    while.body: ; preds = %exit.2, %while.body.lr.ph
        %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
        switch i32 undef, label %exit [
            i32 1, label %sw.bb.i
            i32 2, label %sw.bb3.i
        ]
        sw.bb.i: ; preds = %while.body
            unreachable
        sw.bb3.i: ; preds = %while.body
            unreachable

    exit: ; preds = %while.body
        switch i32 undef, label %exit.2 [
            i32 1, label %sw.bb.i17
            i32 2, label %sw.bb3.i20
        ]
        sw.bb.i17: ; preds = %exit
            %0 = bitcast %struct.0* %lsr.iv to i32*
            %1 = load i32, i32* %0, align 4
            unreachable
        sw.bb3.i20: ; preds = %exit
            %2 = bitcast %struct.0* %lsr.iv to i8**
            %3 = load i8*, i8** %2, align 4
            unreachable

    exit.2: ; preds = %exit
        %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
        br label %while.body

    while.end: ; preds = %entry
        ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdeclsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
    metadata !"fpexcep.strict")
  strictfp
}
ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
}
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}

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1.1303 go-test-deep 1.0.7

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1.1305 libedit 3.1+20181209

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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>.'
built_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
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The End

#!/perl

=head1 NAME

=package 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
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) = $copyright_msg =~ /\d{4,}/s
    or die "Year not found in README copyright message '$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;
}

1.1307 lsof 4.89

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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 3a0982da308228d796df35f98d787c5c1f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.1309 x-sys 0.0.0-20201119102817-f84b799fce68

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- Chris McDonough, 2011/02/16
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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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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
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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__________________________________________________________________________

The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
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tell, only the core code of the unreduce method remained substantially
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*
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*
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* 
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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."

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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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1.1320 packaging 16.5

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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 3a0982da308228d796df35f98d787c5bff2bb5b6.

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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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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```
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1.1332 google-go-cmp 0.5.4
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1.1333 lua 5.2.2

1.1334 libvirt 6.1.0-r0

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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1.1346 python-pycrypto 2.6.1-r0

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Last updated: 2009-02-28

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=== EOF ===

1.1347 ethtool 4.6

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            // Check for each sentinel
            if strings.Contains(string(src), sentinel) {
                // Found license
                return nil
            }
        }
        return fmt.Errorf("Missing license header in %s", path)
    })
}


if !bytes.Contains(src, byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
}

return nil
}
if err != nil {
    t.Fatal(err)
}

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1.1349 elfutils 0.148
1.1349.1 Available under license :

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1.1350 libfile-fcntllock-perl 0.22 3+b5

1.1350.1 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 <ttsyso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.1351 iproute 4.7.0

1.1352 gophercloud 0.1.0

1.1352.1 Available under license:

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 := s.Extract(r)
    if err != nil {
        return nil, err
    }
    return s.Resources, nil
}
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 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](https://github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](https://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](step-04-acceptance-testing.md) 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 _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).

```go
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 as 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)
    })
}

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
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

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

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
}
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)
}

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code:

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}
func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 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 4: Acceptance Testing
==================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

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 start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of
Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of
the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* 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.

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"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

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.

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).

1.1353 libidn 2.3.0

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

/* 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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Version 2, June 1991

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/* _setjmp is implemented in setjmp.S */
@c The GNU Lesser General Public License.
center Version 2.1, February 1999

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@page
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   with the Invariant Sections being @var{list their titles}, with
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```

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c End:

1.1357 kexec-tools 2.0.17
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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.

Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.

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

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

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  * HPUX support.

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  * 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.

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  * 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)

1.1361 libgpg-error 1.24

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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
}
Type *Legal_RegulatedWorkload_Type `json:"type",omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId",omitempty" xmlrpc:"workloadTypeId,omitempty"
 }

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id",omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName",omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name",omitempty" xmlrpc:"name,omitempty"
 }

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>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acbb5668c4c3deb482615c4098eb61fb6b1e
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>>> docker_go-events-aa2e3b613fbbfddbe055a7b9e3ce271cf83eca
>>> docker_libnetwork-fd27f22aa35e3d57f88688f919d05b744f431fd
>>> docker_libtrust-9cbd2a1374f46905c68a4eb3694a130610ad62a
>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-779f45308c19820f1a69e9a4c9d6f5496e0da10f
>>> go-openapi_jsonreference-36d333be519eae5632669801b180b1a245da3b
>>> go-openapi_license-6bb6486231e079ea125e039994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
>>> go-openapi_spec-e072eb2390d3a03736a6eb617d30f48369160447
>>> go-openapi_strfmt-0cb3db4c4c13bad3b3f567b762a66751972a310cc
>>> go-openapi_swag-96d7b9ebd181a17351ac9ace87914f2b32bf56c9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
>>> go_compute_metadata-cd0da878c66091060d2e7403ab62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403ab62192b3e387e0
>>> golang_glog-23def46e14b4da8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d0d4f9fdec7d3821820cc4a6f150e553639a
>>> govmoni-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf410948350a0d66e066a3a90a80
>>> oxtoacart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145dbe066a127c447bb80ee7914f3e4f9
>>> vdemeester_shakers-24d7f1d6a71aa599be73904a6b6b7ee9e4b1b3
>>> vishvananda_netlink-482f7a52b758233521878c65904b6d63f3457
>>> vishvananda_netns-604eaf189ee8678d8c147f4af28def2394e878d25
>>> yaml_v2-4c78c975fe7c825c6d1466c42be594d1d6f3ab6
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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e893999b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e893999b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e893999b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb
>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dbb6d0f2
>>> asaskevich_govalidator-9699ab6b38bee2e02ed3fe8b99ecf67665395c96
>>> azure_go-anisterm-70b2c90b260171e829f1ebd7c17f600c11858d8de
>>> boltdb_bolt-b514920f8fe2e0a6f8f57e5a12c774f385a59ae9f
>>> cenkalti_backoff-b02f2bbce11d7e6b97f282ef1771b0fe2b5e5ef3
>>> client9_misspell-9a1fc2453e9ec9e9c4be9d05be67ade0c05f7
>>> codegangsta/inject-33e0aa1ebc7e0199ccf38be049a82626a403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868d4a9b20a3c8e315aaa
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>>> deckarep_golang-set-1f0f4ff8d3fdef9328522993ce71c35890f67554
>>> dustin_go-humanize-259d4a2102b871d17f30e3c9d898a642961a1e486
>>> gemnasium__logrus-airbrake_hook-v2_2-31e6fd4d5b98d8ee7673d24bc54ec73c31810dd
>>> gizak_termui-79f8fb9cbbe4073eef1f88e6069ca4a2c6aa6676b
>>> go-check_check-20d25e28040501ced2a47ee1a7e447d0de74ee
>>> go-martini/martini-22f4961a1abded6665cf143b146d20005f071
>>> google_go-querystring_query-53e6ce116135b80d037921a7fdd5138c32d7a8a
>>> google_uuid-f3f4b54b2fabcf11d6c939025bb0c109b0ed8
>>> googleapis_gax-go-da06d194a00e19ce00d90111a3931c3f6f6887ce
>>> gorilla_context-1c83b3eabad45b6d70672b66746c02815f0b2872d
>>> gorilla_mux-aef3b13b355c938ee30b2ec8d5130098466f0cc3eef
>>> gorilla_securecookie-fa53299f1370298f1d43dcb2a380bace9c29810b5
>>> gorilla_sessions-ca9da445741534444b003d9d8c9559e4c95f896
>>> gorilla_websocket-a91eb7f97777409bc2443f5534dd41dd20c5720
>>> graylog2_go-gelf-gelf-master
>>> grpc-b1a2821ca54fd6b64e8ddfb7d6d75848393d21
>>> hpccloud_tail-a30252eb686a21eb2d0d98132630353ec2f7f1e5
>>> jessevdk_go-flags-97448c91a7c742cbda3d020b3e769013a420a06ef
>>> julienschmidt/httprouter-975b5c4c721c0e3d2764200b2aaec346575ae6e
>>> justinas/alice-1051af2fca0dd8ed59d28b065f1fcb8274ec
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad582224d55cf26ca9e3d239c2fcb3432a2

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>>> dbus-1.11.12-1.ph2

SECTION 2: Apache License, V2.0

>>> photon-release-2.0-2.ph2

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>>> bzip2-1.0.6-8.ph2
>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
SECTION 4: GNU General Public License, V2.0

>>> e2fsprogs-1.43.4-2.ph2
>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> bash-4.4.12-3.ph2
>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> gmp-6.1.2-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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Go support for leveled logs, analogous to https://code.google.com/p/googleglog

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5d98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798fbb9ebbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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Go-nfs-client version 0.1

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/plugin/compare/compare.go

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codec/codec.go

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protobuf-6a92c871a8f5333cf106b2cdff937567208dbb2b7/codec/codec.go

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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6

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>>> graylog2_go-gelf_gelf-master

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> smartystreets_assertions_internal_ogletest-287b4346dc4e71a038c346375a9d572453bc469b

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94

objx - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/cmd/goyacc/yacc.go

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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.

package short

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>>> zenazn/goji-c05078ca81941f8e801bba3dcd0e6b86b7fde893

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>>> iputils-20151218-4.ph2

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
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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>>> ncurses-6.0-14.ph2

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

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

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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>>> pcre-8.41-1.ph2

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TH su 1 "18 August 1999" "GNU Shell Utilities 20"

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cchkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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iproute2-4.10.0.tar.xz\iproute2-4.10.0.tar\iproute2-4.10.0\include\linux\if_bonding.h

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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SYN signatures. Those signatures work for SYN packets only (duh!).

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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

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bindings\clock\sun4i-a10-pll2.h

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mkinstalldirs --- make directory hierarchy
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2.32\text-utils\line.c
line - read one line


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2.32\misc-utils\uuidparse.c

uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $  
$Date: 1997/06/23 08:26:29 $

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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/B Bison implementation for Yacc-like parsers in C


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this implementation of the pwb library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with j. q. johnson of cornell.
j.otto tennant <jot@cray.com> contributed the cray support.

there are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

the general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. this heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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libgcrypt-1.8.1.tar.bz2/libgcrypt-1.8.1.tar/libgcrypt-1.8.1/random/jitterentropy-base.c

Heavily modified for GnuPG by Werner Koch

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
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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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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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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
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also compile or
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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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That's all there is to it!

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Version 3, 29 June 2007

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Version 2.0

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---------- SECTION 21: SIL Open Font License, V1.1 ----------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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

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1.1364 go-datastructures 1.0.52

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* /opt/cola/permits/1175342946_1644319359.09/0/python2-decorator-4-4-2-1-any-pkg-tar-xz/usr/lib/python2.7/site-packages/decorator.py

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Metadata-Version: 1.2
Name: decorator
Version: 4.4.2
Summary: Decorators for Humans
Home-page: https://github.com/micheles/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: new BSD License
Description: Decorators for Humans

===================== The goal of the decorator module is to make it easy to define signature-preserving function decorators and decorator factories. It also includes an implementation of multiple dispatch and other niceties (please check the docs). It is released under a two-clauses BSD license, i.e. basically you can do whatever you want with it but I am not responsible.

Installation

----------

If you are lazy, just perform

```
$ pip install decorator``

which will install just the module on your system.

If you prefer to install the full distribution from source, including the documentation, clone the `GitHub repo` or download the tarball, unpack it and run
```
$ pip install .`
```

in the main directory, possibly as superuser.

.. _tarball: https://pypi.org/project/decorator/#files
.. _GitHub repo: https://github.com/micheles/decorator

Testing
-------

If you have the source code installation you can run the tests with

`$ python src/tests/test.py -v`

or (if you have setuptools installed)

`$ python setup.py test`

Notice that you may run into trouble if in your system there
is an older version of the decorator module; in such a case remove the
old version. It is safe even to copy the module `decorator.py` over
an existing one, since we kept backward-compatibility for a long time.

Repository
-----------

The project is hosted on GitHub. You can look at the source here:

https://github.com/micheles/decorator

Documentation
--------------

The documentation has been moved to
https://github.com/micheles/decorator/blob/master/docs/documentation.md

From there you can get a PDF version by simply using the print
functionality of your browser.

Here is the documentation for previous versions of the module:

https://github.com/micheles/decorator/blob/4.3.2/docs/tests.documentation.rst
https://github.com/micheles/decorator/blob/4.2.1/docs/tests.documentation.rst
https://github.com/micheles/decorator/blob/4.1.2/docs/tests.documentation.rst
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https://github.com/micheles/decorator/blob/3.4.2/documentation.rst
For the impatient

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

Here is an example of how to define a family of decorators tracing slow operations:

.. code-block:: python

    from decorator import decorator

    @decorator
    def warn_slow(func, timelimit=60, *args, **kw):
        t0 = time.time()
        result = func(*args, **kw)
        dt = time.time() - t0
        if dt > timelimit:
            logging.warn('%s took %d seconds', func.__name__, dt)
        else:
            logging.info('%s took %d seconds', func.__name__, dt)
        return result

    @warn_slow  # warn if it takes more than 1 minute
    def preprocess_input_files(inputdir, tempdir):
        ...

    @warn_slow(timelimit=600)  # warn if it takes more than 10 minutes
    def run_calculation(tempdir, outdir):
        ...

    Enjoy!

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
1.1369 go-connections 0.2.1

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1.1370 python-six 1.14.0-r0
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1.1372 errors 0.8.1

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* More information about curve25519 can be found here
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*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

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

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

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

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

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

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

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

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

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
## End BSD-specific setup

1.1388 libdevmapper 1.02.76
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1.1395 zlib 1.2.11 r3

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1434 x-crypto 0.0.0-20190308221718-c2843e01d9a2

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1.1436 oracle-oci-go-sdk 12.5.0+incompatible

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// Code generated. DO NOT EDIT.

// Analytics API
//@
//@ Analytics API.
package analytics

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
    LicenseTypeLicenseIncluded     LicenseTypeEnum = "LICENSE_INCLUDED"
    LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseType = map[string]LicenseTypeEnum{
    "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
    "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
    values := make([]LicenseTypeEnum, 0)
    for _, v := range mappingLicenseType {
        values = append(values, v)
    }
    return values
}

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1.1437 d-bus 1.12.20-r0

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Gocheck - A rich testing framework for Go

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine
import (  "bytes"  "encoding/json"  "strings"  "testing"  "time"
  
  "github.com/docker/cli/cli/command/formatter"  
  "github.com/docker/cli/internal/licenseutils"  
  "github.com/docker/licensing/model"  
  "gotest.tools/v3/assert"
  is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {  
cases := []struct {  
  context  formatter.Context  
  expected string  
  }{  
    // Errors  
    {  
      formatter.Context{Format: "{{InvalidFunction}}"},  
      `Template parsing error: template: :1: function "InvalidFunction" not defined
       ',
    },  
    {  
      formatter.Context{Format: "{{nil}}"},  
      `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
       ',
    },  
    // Table format  
    {  
      formatter.Context{Format: NewSubscriptionsFormat("table", false)},  
      `NUM  OWNER  PRODUCT ID  EXPIRES  PRICING COMPONENTS
1  owner1  productid1  2020-01-01 10:00:00 +0000 UTC  compstring
2  owner2  productid2  2020-01-01 10:00:00 +0000 UTC  compstring
       ',
    },  
    {  
      formatter.Context{Format: NewSubscriptionsFormat("table", true)},  
      `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
       ',
    },  
    {  
      formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},  
      `OWNER
owner1

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expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                Name:  "name2",            // Raw Format
                Components: compstring
            },
            License: id2
        },
        {
            Owner: "owner2",
            Subscription: model.Subscription{
                Name:  "name1",            // Raw Format
                Components: compstring
            },
            License: id1
        },
        {
            Owner: "owner1",            // Custom Format
            Subscription: model.Subscription{
                Name:  "name2",            // Custom Format
                Components: compstring
            },
            License: id2
        },
        {
            Owner: "owner2",
            Subscription: model.Subscription{
                Name:  "name1",            // Custom Format
                Components: compstring
            },
            License: id1
        },
    }
}
ID:   "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 10,
  },
},
ComponentsString: "compstring",
},
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
  ID:   "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
},
ComponentsString: "compstring",
},
out := &bytes.Buffer{
}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
  {
    Num: 1,
    Owner: "owner1",
  }
  }
}
Subscription: model.Subscription{
    ID: "id1",
    Name: "name1",
    ProductID: "productid1",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
        },
        &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
        },
    },
    ComponentsString: "compstring",
}

Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 20,
        },
        &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 20,
        },
    },
    ComponentsString: "compstring",
}

expectedJSONs := []map[string]interface{}{
    {
        "Owner": "owner1",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id1",
        "Start": nil,
        "Name": "name1",
        "Num": float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(10),
            },
        },
    },
}
},
"ProductID":
"productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner":
"owner2",
"ComponentsString": "compstring",
"Expires":
"2020-01-01T10:00:00Z",
"DockerID":
"",
"Eusa":
nil,
"ID":
"id2",
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},

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```go
package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIdHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
```
return defaultSubscriptionsTableFormat

case formatter.RawFormatKey:
    if quiet {
        return `license: {{.ID}}`
    } else {
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}

return formatter.Format(source)

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header = map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
            "ID": idHeader,
            "DockerID": dockerIDHeader,
            "ProductID": productIDHeader,
            "ProductRatePlan": productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start": startHeader,
            "Expires": expiresHeader,
            "State": stateHeader,
            "Eusa": eusaHeader,
            "ComponentsString": pricingComponentsHeader,
        }
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}
func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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import (  
"context"
"crypto/hmac"
"crypto/sha256"
"encoding/base64"
"encoding/json"
"fmt"
"time"

"github.com/docker/libtrust"
"github.com/docker/licensing/lib/errors"
"github.com/docker/licensing/lib/go-clientlib"
"github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
url := c.baseURI  
url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)  

license := new(model.IssuedLicense)  
if _, err := c.doReq(ctx, "GET", &url, clientlibRecvJSON(license)); err != nil {  
return nil, err  
}
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }

    return license, nil
}
checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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

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// A CheckResponse is the internal content of the PublicCheckResponse signed // json blob.

type CheckResponse struct {
  Expiration  time.Time `json:"expiration"
  Token       string   `json:"token"
  MaxEngines  int      `json:"maxEngines"
  ScanningEnabled bool   `json:"scanningEnabled"
  Type        string   `json:"licenseType"
}
Tier string `json:"tier"

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID    string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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//
package gitlab

import (    "fmt"
 )

// LicenseTemplate represents a license template.
//
// GitLab API docs:
// https://docs.gitlab.com/ce/api/templates/licenses.html
type LicenseTemplate struct {    Key string `json:"key"`
 Name string `json:"name"`
 Nickname string `json:"nickname"`
 Featured bool `json:"featured"`
 HTMLURL string `json:"html_url"`
 SourceURL string `json:"source_url"`
// LicenseTemplatesService handles communication with the license templates
// related methods of the GitLab API.
//
// GitLab API docs: https://docs.gitlab.com/ce/api/templates/licenses.html
//
type LicenseTemplatesService struct {
    client *Client
}

// ListLicenseTemplatesOptions represents the available
// ListLicenseTemplates() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ce/api/templates/licenses.html#list-license-templates
type ListLicenseTemplatesOptions struct {
    ListOptions
    Popular *bool `url:"popular.omitempty" json:"popular.omitempty"`
}

// ListLicenseTemplates get all license templates.
//
// GitLab API docs:
// https://docs.gitlab.com/ce/api/templates/licenses.html#list-license-templates
func (s *LicenseTemplatesService) ListLicenseTemplates(opt *ListLicenseTemplatesOptions, options ...RequestOptionFunc) ([]*LicenseTemplate, *Response, error) {
    req, err := s.client.NewRequest("GET", "templates/licenses", opt, options)
    if err != nil {
        return nil, nil, err
    }

    var lts []*LicenseTemplate
    resp, err := s.client.Do(req, &lts)
    if err != nil {
        return nil, resp, err
    }

    return lts, resp, err
}

// GetLicenseTemplateOptions represents the available
// GetLicenseTemplate() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ce/api/templates/licenses.html#single-license-template
type GetLicenseTemplateOptions struct {
Project *string `url:"project,omitempty" json:"project,omitempty"`
Fullname *string `url:"fullname,omitempty" json:"fullname,omitempty"`
}
// GetLicenseTemplate get a single license template. You can pass parameters
// to replace the license placeholder.
//
// GitLab API docs:
// https://docs.gitlab.com/ce/api/templates/licenses.html#single-license-template
func (s *LicenseTemplatesService) GetLicenseTemplate(template string, opt *GetLicenseTemplateOptions, options
...RequestOptionFunc) (*LicenseTemplate, *Response, error) {
u := fmt.Sprintf("templates/licenses/%s", template)
req, err := s.client.NewRequest("GET", u, opt, options)
if err != nil {
return nil, nil, err
}
lt := new(LicenseTemplate)
resp, err := s.client.Do(req, lt)
if err != nil {
return nil, resp, err
}
return lt, resp, err
}
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# have contributed) code to the gomock repository.
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#
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#
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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
}
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *string   `json:"permissions,omitempty"`
    Conditions     *string   `json:"conditions,omitempty"`
    Limitations    *string   `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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var licenses []License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil
}

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package gitlab

import "time"

// LicenseService handles communication with the license
// related methods of the GitLab API.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type LicenseService struct {
    client *Client
}

// License represents a GitLab license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type License struct {
    ID               int        `json:"id"`
    Plan             string     `json:"plan"`
    CreatedAt        *time.Time `json:"created_at"`
    StartsAt         *ISOTime   `json:"starts_at"`
    ExpiresAt        *ISOTime   `json:"expires_at"`
    HistoricalMax    int        `json:"historical_max"`
    MaximumUserCount int        `json:"maximum_user_count"`
    Expired          bool       `json:"expired"`
    Overage          int        `json:"overage"`
    UserLimit        int        `json:"user_limit"`
    ActiveUsers      int        `json:"active_users"`
    Licensee struct {
        Name    string `json:"Name"`
        Company string `json:"Company"`
        Email   string `json:"Email"`
    } `json:"licensee"`
    // Add on codes that may occur in legacy licenses that don't have a plan yet.
    AddOns struct {
        GitLabAuditorUser int `json:"GitLab_Auditor_User"`
        GitLabDeployBoard int `json:"GitLab_DeployBoard"`
        GitLabFileLocks   int `json:"GitLab_FileLocks"`
        GitLabGeo         int `json:"GitLab_Geo"`
        GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
    } `json:"add_ons"`
func (l *License) String() string {
    return Stringify(l)
}

// GetLicense retrieves information about the current license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#retrieve-information-about-the-current-license
func (s *LicenseService) GetLicense() (*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "license", nil, nil)
    if err != nil {
        return nil, nil, err
    }

    l := new(License)
    resp, err := s.client.Do(req, l)
    if err != nil {
        return nil, resp, err
    }

    return l, resp, err
}

// AddLicenseOptions represents the available AddLicense() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
type AddLicenseOptions struct {
    License *string `url:"license" json:"license"
}

// AddLicense adds a new license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
func (s *LicenseService) AddLicense(opt *AddLicenseOptions, options ...RequestOptionFunc) (*License, *Response, error) {
    req, err := s.client.NewRequest("POST", "license", opt, options)
    if err != nil {
        return nil, nil, err
    }

    l := new(License)
    resp, err := s.client.Do(req, l)
    if err != nil {
        return nil, resp, err
    }

    return l, resp, err
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tomb - support for clean goroutine termination in Go.

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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
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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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In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

---

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.
core: License/EULA changes that ensure the presence of a valid HashiCorp license to start Vault. More information is available in the [Vault License FAQ](https://www.vaultproject.io/docs/enterprise/license/faqs).

```release-note:changes
---
layout: api
page_title: /sys/license - HTTP API
description: |
The `/sys/license` endpoint is used to view and update the license used in Vault.
---

# `/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

```
This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead, and see [License Status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
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<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
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</tbody>
</table>

### Sample Request

```
$ curl \
`--header "X-Vault-Token: ..." \
    http://127.0.0.1:8200/v1/sys/license \
```

### Sample Response

```
{
    "data": {
      "expiration_time": "2017-11-14T16:34:36.546753-05:00",
      "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
      "license_id": "temporary",
      "start_time": "2017-11-14T16:04:36.546753-05:00"
    },
    "warnings": ["time left on license is 29m33s"]
}
```

## Read Signed License

This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
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<tr>
<th align="left">Method</th>
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<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
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</table>

### Sample Request

```
$ curl \
```

### Sample Response

```
```

## Read License

This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the license ID for the currently installed license.

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<tbody>
<tr>
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<td align="left"><code>/sys/license</code></td>
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</table>

### Sample Request

```
$ curl \
```

### Sample Response

```
```

## Manage License

This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint allows you to manage the license for your system.

<table>
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<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
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</table>

### Sample Request

```
$ curl \
`--header "X-Vault-Token: ..." \
    http://127.0.0.1:8200/v1/sys/license \
    --data "data=json{"key":"value"}"
```

### Sample Response

```
```

## Manage License File

This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint allows you to manage the license file for your system.

<table>
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<tr>
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<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
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</table>

### Sample Request

```
$ curl \
`--header "X-Vault-Token: ..." \
    http://127.0.0.1:8200/v1/sys/license \
    --data "data=json{"key":"value"}"
```

### Sample Response

```
```
```bash
--header "X-Vault-Token: ...
http://127.0.0.1:8200/v1/sys/license/signed
```

### Sample Response

```json
{
  "data": {
    "signed": "01ABCDEFG..."
  }
}
```

## Install License

-> This API is deprecated and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. This will return an error if license autoloading is in use.

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<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
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</table>

### Parameters

- `text` *(string: <required>)*  The text of the license.

_DR Secondary Specific Parameters_

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```shell-session
```
$ curl
   --header "X-Vault-Token: ...
   --request PUT
   --data @payload.json
   http://127.0.0.1:8200/v1/sys/license

## Delete License

-> This API is deprecated and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

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<tbody>
<tr>
<td align="left"><code>DELETE</code></td>
<td align="left"><code>/sys/license</code></td>
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</table>

### Sample Request

```shell-session
$ curl
   --header "X-Vault-Token: ...
   --request DELETE
   http://127.0.0.1:8200/v1/sys/license
```

## License Status

This endpoint returns information about licensing. It returns similar information to a GET of `/sys/license`, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing information the Vault cluster has. See [license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:

* `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise.
* `autoloaded` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloaded`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.
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<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

### Sample Response

```
```json
{
   "data": {
      "autoloading_used": true,
      "autoloaded": {
         "expiration_time": "2022-05-17T23:59:59.999Z",
         "features": [
            "HSM",
            "Performance Replication",
            "DR Replication",
            "MFA",
            "Sentinel",
            "Seal Wrapping",
            "Control Groups",
            "Performance Standby",
            "Namespaces",
            "KMIP",
            "Entropy Augmentation",
            "Transform Secrets Engine",
            "Lease Count Quotas",
            "Key Management Secrets Engine",
            "Automated Snapshots"
         ],
         "license_id": "060d7820-fa59-f95c-832b-395db0ae4ba",
         "performance_standby_count": 9999,
         "start_time": "2021-05-17T00:00:00Z"
      },
      "persisted_autoload": {
         "expiration_time": "2022-05-17T23:59:59.999Z",
         "features": [
            "HSM",
            "Performance Replication",
            "DR Replication",
         ]
      }
   }
}
```
"MFA",
"Sentinel",
"Seal Wrapping",
"Control Groups",
"Performance Standby",
"Namespaces",
"KMIP",
"Entropy Augmentation",
"Transform Secrets Engine",
"Lease Count Quotas",
"Key Management Secrets Engine",
"Automated Snapshots"
],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z"
}
},
}
}
...

package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
  return false
}

<LicenseInfo
  @startTime={{model.startTime}}
  @expirationTime={{model.expirationTime}}
  @licenseId={{model.licenseId}}
  @features={{model.features}}
  @autoloaded={{model.autoloaded}}
  @performanceStandbyCount={{model.performanceStandbyCount}}
/>

---
layout: docs
page_title: license inspect - Command
description: |
The "license inspect" command describes the contents of a signed license string.

# license inspect

The `license inspect` command describes the contents of a signed license string.
## Examples
Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):
```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid
```
Describe license at given path:
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid

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## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against

---

layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.
---

# Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8. We will no longer support the old license system (`vault write sys/license`), and autoload will be the only way to manage your license.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from releases.hashicorp.com[<a href="https://releases.hashicorp.com/vault/">https://releases.hashicorp.com/vault/</a>])</td>
<td>Yes</td>
</tr>
<tr>
<td>Open-Source (OSS)</td>
<td>No</td>
</tr>
<tr>
<td>Baked-in license binaries (pro/premium)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.
### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release. Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement).

Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).
**Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: The path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?
The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.

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---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.
---

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/docs/system/license#install-license).
As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)

- [license_path in config](/docs/configuration#license_path)
- [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
- [VAULT_LICENSE environment variable](/docs/commands#vault_license)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloading license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/docs/system/license#delete-license) to remove the stored license.

# Examples

Describe current license:

```
$ vault license get
```

```
    Key                          Value
    ---                          -----
    expiration_time              2022-05-17T23:59:59Z
    features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
                                   Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
                                   Key Management Secrets Engine Automated Snapshots]
    license_id                   060d7820-fa59-f95c-832b-395db0aeb9ba
    performance_standby_count    9999
    start_time                   2021-05-17T00:00:00Z
```

With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/docs/enterprise/license/autoloading).
Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

## Details

<table>
<thead>
<tr>
<th>License ID</th>
<th>Valid from</th>
<th>License state</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>{{date-format @startTime 'MMM dd, yyyy hh:mm:ss a'}} to {{date-format @expirationTime 'MMM dd, yyyy hh:mm:ss a'}}</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Information

- Stored licenses will be deprecated in a future version of Vault. We recommend autoloading your license. Read more [here](https://www.vaultproject.io/docs/enterprise/license)
The "license" command groups subcommands for interacting with Vault licenses.

---

# license

The `license` command groups subcommands for interacting with Vault licenses.

For more information, please see the [license documentation](/docs/enterprise/license)

## Examples

Query current license in use by a node:
```shell-session
$ vault license get
Key                          Value
---                          ----- 
expiration_time              2022-05-17T23:59:59.999Z
features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id                   060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time                   2021-05-17T00:00:00Z
``` 

Query signed license string (only when using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
``` 

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":["modules":["multi-de-scale","governance-policy","advanced-data-protection"]],"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
``` 

---

## Usage

```text
```
Usage: vault license <subcommand> [options] [args]

# ...

Subcommands:
  get      Query Vault's license
  inspect  View the contents of a license string

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

1.1484 layeh.com-radius 0.0.0-20190322222518-890bc1058917
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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1.1487 lsof 4.87

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Because of this blurred distinction, using the ordinary General
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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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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
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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
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When a "work that uses the Library" uses material from a header file
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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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Otherwise, if the work is a derivative of the Library, you may
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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

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1.1501 socat 1.7.3.4-r1

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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1.1524 rfkill 2.24.2

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-build@perl.org>.'"
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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); } my ($opt) = @ARGV;

my $readme_year = readme_year(); my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') { my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year'; is $readme_year, $current_year, 'README copyright includes current year'; }
# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
  # returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
       or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
  # returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright \d{4,} /i
       or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.1528 protobuf 3.19.4
1.1528.1 Available under license:

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* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/lib/google/protobuf.rb
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/lib/google/protobuf/repeated_field.rb
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/lib/google/protobuf/well_known_types.rb

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* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/ext/google/protobuf_c/protobuf.c
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/ext/google/protobuf_c/repeated_field.c
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/ext/google/protobuf_c/map.c
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-gz/ext/google/protobuf_c/message.c

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gz/ext/google/protobuf_c/ruby-upb.c
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/ruby-upb.h

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gz/ext/google/protobuf_c/repeated_field.h
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/defs.h
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/message.h
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/convert.c
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/map.h
* /opt/cola/permits/1269652279_1644565998.85/0/google-protobuf-3-19-4-gem/data-tar-
gz/ext/google/protobuf_c/convert.h

1.1529 glib 2.48.2
1.1529.1 Available under license :
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1.1532 curl 7.69.1-r0

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1.1533 checkpolicy 3.0-r0

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1.1534 igb 5.5.2-r0

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

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

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

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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1.1539 e2fsprogs 1.44.5 1+deb10u3

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

 - trivial database library - private includes
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Theodore Ts'o
23-June-2007

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

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

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

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

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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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 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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Gadi Oxman, August 1995

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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

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

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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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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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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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1.1574 github 17.0.0+incompatible

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package github

import (
func TestLicensesService_List(t *testing.T) {
  client, mux, _, teardown := setup()
  defer teardown()

  mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    fmt.Fprint(w, `[
      {
        "key": "mit",
        "name": "MIT",
        "spdx_id": "MIT",
        "url": "https://api.github.com/licenses/mit",
        "featured": true
      }
    ]`)
  })

  licenses, _, err := client.Licenses.List(context.Background())
  if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
  }

  want := []License{
    Key:  String("mit"),
    Name:  String("MIT"),
    SPDXID: String("MIT"),
    URL:  String("https://api.github.com/licenses/mit"),
    Featured: Bool(true),
  }
  if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
  }
}

func TestLicensesService_Get(t *testing.T) {
  client, mux, _, teardown := setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    fmt.Fprint(w, `{
      "key": "mit",
      "name": "MIT"
    }`)}
  })

  license, _, err := client.Licenses.Get(context.Background(), "mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    client, _, _, teardown := setup()
    defer teardown()

    _, _, err := client.Licenses.Get(context.Background(), "%")
    testURLParseError(t, err)
}

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package github

import (           "context"
               "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name  *string `json:"name,omitempty"`
    Path  *string `json:"path,omitempty"`
    SHA       *string  `json:"sha,omitempty"`
    Size     *int     `json:"size,omitempty"`
    URL      *string  `json:"url,omitempty"`
    HTMLURL         *string  `json:"html_url,omitempty"`
    GitURL      *string  `json:"git_url,omitempty"`
    DownloadURL *string  `json:"download_url,omitempty"`
    Type       *string  `json:"type,omitempty"`
    Content    *string  `json:"content,omitempty"`
    Encoding   *string  `json:"encoding,omitempty"`
    License    *License `json:"license,omitempty"
}
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.

func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil

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1.1575 binutils 2.24
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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.

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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".)

"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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   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
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your rights to work written entirely by you; rather, the intent is to
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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
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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
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permitted, and provided that you do these two things:

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1.1577 wget 1.18

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

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

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

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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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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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1.1583 sshpass 1.06

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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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#----------------------------------------------------------------------
#
# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
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*** robotparser.py

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unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
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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
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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-----------------------------------------------
-- abs.decTest -- decimal absolute value        --
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-----------------------------------------------
/* Random objects */
The code in this module was based on a download from:

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped in python calling/return code.

* genrand_int32() and the helper functions, init_genrand() and init_by_array(), were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

* unused functions from the original were deleted.

new, original C python code was added to implement the Random() interface.

The following are the verbatim comments from the original code:

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

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

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http://www.math.keio.ac.jp/matumoto/emt.html
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#Table format:    Format A
#Date:            2005-10-25
#Authors:         Marc-Andre Lemburg <mal@egenix.com>
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# subprocess - Subprocesses with accessible I/O streams
#
# For more information about this module, see PEP 324.
#
# This module should remain compatible with Python 2.2, see PEP 291.
#
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----------------------------------------------------------------------- */

# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl  created
# 2003-11-14 fl  fixed default loader
#
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#
# fredrik@pythonware.com
# http://www.pythonware.com
#
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# tarfile.py
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#
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#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $

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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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

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the verbatim comments from the original code::

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

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Sockets
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    L. Peter Deutsch
    ghost@aladdin.com

    Independent implementation of MD5 (RFC 1321).

    This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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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
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- Arguments more compliant with python standard

XML Remote Procedure Calls

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

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1.1591 gobject-introspection 1.48.0

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# Contributions to the urllib3 project

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## Contributors

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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/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

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

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

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

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

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

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

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

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

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

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

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

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

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

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

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

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

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

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

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

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

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

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

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

* 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 <ttomeck@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

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

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

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

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

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

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

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

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

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

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

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

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

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

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

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

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

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

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

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

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

* Alexandre Dias <alex.dias@smarkets.com>
  * Don’t retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix `util.selectors._fileobj_to_fd` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.
* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
* Test improvements

* Chris Olufson <tycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

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

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.1604 tdb 1.43.5

1.1604.1 Available under license:

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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#
# 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): $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)

'echo $(my_dir) | sed -e 's:lib/::'/${BSD_LIB} $(BSD_LIB)\n\n@echo "INSTALL_PROGRAM ${BSDLIB_INSTALL_DIR}/${BSD_LIB}"\n@${INSTALL_PROGRAM} ${BSD_LIB}\n/${DESTDIR}${BSDLIB_INSTALL_DIR}/${BSD_LIB}\n@-s(LDCONFIG)\n\ninstall-shlibs install:: ${BSD_LIB} \n@echo "INSTALL_PROGRAM ${BSDLIB_INSTALL_DIR}/${BSD_LIB}"\n@${INSTALL_PROGRAM} ${BSD_LIB} \n/${DESTDIR}${BSDLIB_INSTALL_DIR}/${BSD_LIB}\n@-s(LDCONFIG)\n\ninstall-shlibs-strip: install-shlibs
\nuninstall-shlibs uninstall::\n${RM} -f ${DESTDIR}${BSDLIB_INSTALL_DIR}/${BSD_LIB}\n\nclean::\n${RM} -rf pic\n${RM} -f ${BSD_LIB}\n${RM} -f ../${BSD_LIB}\n\nThis package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007\n\nIt is part of the main e2fsprogs distribution, which can be found at:\n\nhttp://sourceforge.net/projects/e2fsprogs\n\nUpstream Author: Theodore Ts'o <tytso@mit.edu>\n\nCopyright:\n\nCopyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 by Theodore Ts'o\n\nRedistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:\n1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.\n2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.\n3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.\n\nTHIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
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Theodore Ts'o
23-June-2007

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

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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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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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  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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1.1613 python 2.7.16

1.1614 workerpool 0.0.0-20190406235159-88d534f22b56

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mem.h
low-level memory access routines

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/xxhash.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/fse_decompress.c
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/entropy_common.c

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v04.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v03.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v06.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v07.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v02.c

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v02.h
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*/opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_ldm.c
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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.

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1.1621 jcmtturner-gokrb 8.0.0

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cmd/krb5/kadm5/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/mach/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
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
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package cloud
import (
"bytes"
"io/ioutil"
"os"
"path/filepath"
"strings"
"testing"
)
var sentinels = []string{
"Copyright",
"Google",
`Licensed under the Apache License, Version 2.0 (the "License");`,
}
func TestLicense(t *testing.T) {
t.Parallel()
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
return err
}
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
return nil
}
if strings.HasSuffix(path, ".pb.go") {
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {

Open Source Used In IOS XR Software 7.7.1 23228


// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}
return nil

//
})
if err != nil {
t.Fatal(err)
}

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1.1630 usbutils 7

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),)
Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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```python
webencodings.mklabeled
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['"\n
```webencodings.labels
~~~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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```# XXX Do not edit!
# This file is automatically generated by mklabeled.py

LABELS = {
```
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    ' %s: %s,\n' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, "US-ASCII" and "iso-8859-1" on the web are actually aliases for "windows-1252", and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

python-webencodings

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* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

1.1636 util-linux 2.30.0

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*/
NR START  END SECTORS SIZE NAME UUID
1  32  7679  7648 3.7M  8f8378c0-01
2  7680 16383  8704 4.3M  8f8378c0-02
5  7936 12799  4864 2.4M
6 12544 16127  3584 1.8M

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*Version 2.1, February 1999*

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1.1648 vim 8.0

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+ trivial database library - standalone version

+ trivial database library - private includes

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Theodore Ts'o
23-June-2007

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

Preamble

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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.

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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

image::$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \-s$(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 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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Gadi Oxman, August 1995

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

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

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Mersenne Twister
-------------

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

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

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

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Any feedback is very welcome. http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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Original location:
https://github.com/majek/csiphash/

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

strtod and dtoa
--------

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

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

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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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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Written by:     Philip Hazel
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* 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

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* 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 <jatherfold@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()`.

* 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.

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

1.1678 posener-complete 1.2.3

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1.1681 prometheus-common 0.9.1

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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\nModule-Build mailing list at <module-build@perl.org>.'

buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Build

resources:
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The End
#!/perl
=head1 NAME
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) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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

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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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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.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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**1.1691 unzip 6.0**

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of deflate(), 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.

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* 
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* 
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-----

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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--------------------------------------------------------------------------

1.1692 libpng 1.6.24
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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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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf
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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        formatter.Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined"
        
        formatter.Context{Format: "{{nil}}"},
        "Template parsing error: template: :1:2: executing " at <nil>: nil is not a command"
        
        // Table format
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        "NUM                 OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring
        
        formatter.Context{Format: NewSubscriptionsFormat("table", true)},
        "1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01"
License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01

OWNER
owner1
owner2

OWNER
owner1
owner2

// Raw Format

date := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, 
     Owner: "owner1", 
     Subscription: model.Subscription{
         ID: "id1", 
         Name: "name1", 
         ProductID: "productid1", 
         Expires: &expiration, 
         PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes", 
                Value: 10, 
            }, 
            ComponentsString: "compstring", 
        }, 
        Num: 2, 
        Owner: "owner2", 
        Subscription: model.Subscription{
            ID: "id2", 
            Name: "name2", 
            ProductID: "productid2", 
            Expires: &expiration, 
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes", 
                    Value: 20, 
                }, 
                ComponentsString: "compstring", 
            },
            out := &bytes.Buffer{} 
            testcase.context.Output = out 
            err := SubscriptionsWrite(testcase.context, subscriptions) 
            if err != nil { 
                assert.Error(t, err, testcase.expected) 
            } else { 
                assert.Check(t, is.Equal(testcase.expected, out.String())) 
            } 
        }}}}
func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := [][licenseutils.LicenseDisplay{
    Num:  1,
    Owner: "owner1",
    Subscription: model.Subscription{
        ID:        "id1",
        Name:      "name1",
        ProductID: "productid1",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name:  "nodes",
                Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
    },

    Num:  2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID:        "id2",
        Name:      "name2",
        ProductID: "productid2",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name:  "nodes",
                Value: 20,
                },
            },
            ComponentsString: "compstring",
        },
    },
}
expectedJSONs := []map[string]interface{}{
    {
        "Owner":        "owner1",
        "ComponentsString": "compstring",
        "Expires":       "2020-01-01T10:00:00Z",
        "DockerID":      "",
        "Eusa":         nil,
        "ID":           "id1",
        "Start":        nil,
    },
    {
        "Owner":        "owner2",
        "ComponentsString": "compstring",
        "Expires":       "2020-01-01T10:00:00Z",
        "DockerID":      "",
        "Eusa":         nil,
        "ID":           "id2",
        "Start":        nil,
    },
}
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(10),
],
],
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
],
],
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(20),
],
],
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
],
]
```go
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
  {Num: 1, Owner: "owner1"},
  {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
    }
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import {
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
}

"github.com/docker/libtrust"
"github.com/docker/licensing/lib/errors"
"github.com/docker/licensing/lib/go-clientlib"
"github.com/docker/licensing/model"

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "error": "Unable to parse JWS signature"}})
    }
"key_id": keyID,
}, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}
return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
for _, publicKey := range c.publicKeys {
if key.KeyID() == publicKey.KeyID() {
return true
}
return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
"key_id": license.KeyID,
}, "decoding license authorization failed")
}
return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedToken, err := generateToken(message, privateKey)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
if !hmac.Equal(tokenBytes, generatedBytes) {
return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
  key, err := base64.URLEncoding.DecodeString(privateKey)
  if err != nil {
    return "", errors.Wrap(err, errors.Fields{"msg": message})
  }
  h := hmac.New(sha256.New, key)
  h.Write([]byte(message))
  return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

type CheckResponse struct {
    Expiration    time.Time `json:"expiration"`
    Token         string    `json:"token"`
    MaxEngines    int       `json:"maxEngines"`
    ScanningEnabled bool     `json:"scanningEnabled"`
    Type          string    `json:"licenseType"`
    Tier          string    `json:"tier"`
}

// IssuedLicense represents an issued license

type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
}
if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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