Open Source Used In IOS XR Software 7.6.1

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1.7 go-criu 4.1.0

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1.9 perl-module-logfile-rotate 1.04-r0
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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 L<gzip> must be in your current path to succeed, and accept the C<-f> option.

See the L<"WARNING"> section below.

=head2 Optional Relocation Directory

If you specify an argument for C<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 C<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 F<gzip> this makes this module vulnerable to security problems if a rogue gzip is in your path or F<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 C<Compress::Zlib> module and use the B<lib> value for the C<Gzip> argument.

If you specify an argument for C<Dir> and the directory name you pass does not exist, this module B<will create> the directory with permissions C<0750>.

=head1 DEPENDANCIES

See L<File::Copy>.

If C<Gzip> is being used it must create files with an extension of C<.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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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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The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:
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* A collection of File Manager and related routines

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The following copyright applies to the Mac OS "macbin3" decoding code
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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-----

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-----

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.
1.14 lua 5.1.5

1.14.1 Available under license:

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1.15 flex 2.6.0
1.16 binutils 2.34-r0

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

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

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

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

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

5. A program that contains no derivative of any portion of the 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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threshold for this to be true is not precisely defined by law.

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

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

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#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                   

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 
#define UV_HAVE_KQUEUE 1
Files: getopt.c

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1.20 jinja2 2.11.3
1.20.1 Available under license :

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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
Maintainer-email: contact@palletsprojects.com
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`:

```text
$ pip install -U Jinja2
```


In A Nutshell
-------------

```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/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/PKG-INFO
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/src/Jinja2.egg-info/PKG-INFO

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```python
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",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2. 7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3. 5",
        "Programming Language :: Python :: 3. 6",
        "Programming Language :: Python :: 3. 7",
        "Programming Language :: Python :: 3. 8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/ HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    install_requires=["MarkupSafe>=0.23"],
    extras_require={"i18n": ["Babel>=0.8"]},
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"],}
1.21 fuse 2.9.4

1.21.1 Available under license:

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1.23 pip 18.1

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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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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
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1.29 csrp 1.0
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1.30 tre 0.8.0

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1.31 newt 0.52.17
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1.32 gofuzz 1.1.0

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1.42 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.45 sysv-init 2.88

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The of the start-stop-daemon

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* in C (faster - it is executed many times during system startup).
* 
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1.46 mtd-utils 1.5.1

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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 ee249ae0..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-targ.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.

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.

```sh
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:
  ```sh
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:
  ```sh
  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
  ```sh
  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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Found in path(s):
* /opt/cola/permits/1211786582_1648307365.42/0/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 59438b46471ae6cfd761af8c9beaf1e428a331. 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
                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: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..daff4482f 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/1211786582_1648307365.42/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-
gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0037-policy-
modules-system-modutils-allow-mod_t-to-access.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/1211786582_1648307365.42/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-tar-
gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/files/setrans-mcs.conf

1.53 netaddr 0.8.0

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1.54 go-capability 0.0.0-20200815063812-42c35b437635
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1.55 binutils 2.25.51

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

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

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

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

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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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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.>
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.

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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

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.

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

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

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

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

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

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

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1. 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.

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

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

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

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

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

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]j0 & 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 (objieee), 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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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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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
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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
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"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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.59 expat 2.1.1

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1.60 kmod 18+git0+ae58de0fcb

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Version 2.1, February 1999

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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.

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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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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1.62 lz4 1.9.2-r0

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Upstream-Name: liblz4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

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1.65 godo 1.10.0

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/labels.py
from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search(r'\n^VERSION = (\'[^\'\"]+)\', io.open(os.path.join(os.path.dirname(__file__), 'webencodings', '__init__.py'), encoding='utf-8').read()).group(1)

LONG_DESCRIPTION = io.open(os.path.join(os.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(),
)

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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---

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~~

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 = [""
    ""
webencodings.labels
~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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---

# XXX Do not edit!
# This file is automatically generated by mklables.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 %s,
' % (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
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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
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Classifier: Topic :: Internet :: WWW/HTTP

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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```
python-webencodings
```

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

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1.72 bc 1.06

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/*

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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. */
c_num _zero_;  
c_num _one_;  
c_num _two_;  

static c_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;
}

/* Initialize 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.  
_bbc_rm_leading_zeros just moves the data "value" pointer to the 
correct place and adjusts the length. */

static void
_bbc_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 USE_SIGN is false, just 
compare the magnitudes. */


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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);  
    }  
}
/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    be_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)
    be_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)
    be_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--; n1bytes--; }
    else
        while (n2bytes>n1bytes)
            { *sumptr-- = *n2ptr--; n2bytes--; }
}

/* 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"
#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
_bc_simp_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--)
      *accp -= *valp-- + carry;
    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--;
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
        else
            carry = 0;
    }
}

/* 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);
}
    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bccb_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bccb_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;
b_c_free_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;
          }
          /* 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);
          *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;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
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+extra1+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--;
        }

        /* 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 pwrscaler;
    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)
    {
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
    }

    /* 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+1))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
broadcast (guess_one_num.rscale);
broadcast (&guess);
broadcast (&guess1);
broadcast (&point5);
broadcast (&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;
            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);
bis_init_num (&base);
bis_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;
bis_int2num (&base, o_base);
bis_init_num (&max_o_digit);
bis_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);
broadcast_num (&frac_part);
broadcast_num (&base);
broadcast_num (&cur_dig);
broadcast_num (&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)
    bc_num 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)
    bc_num *num;
    int 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;
        }
/* 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;

  bc_out_num (num, 10, out_char, 0);
  out_char ('n');
}

/* pv prints a character array as if it was a string of bcd digits. */
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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(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
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especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold
for this to be true is not precisely defined by law.

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

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

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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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(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.

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

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That's all there is to it!

1.75 mtd-utils 1.5.2

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jumbotron
Constant-time SSSE3 AES core implementation.

By Mike Hamburg (Stanford University), 2009

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

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

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1.88 hashicorp-serf v0.9.5

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1.90 pixman 0.32.6

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1.91 lzo 2.08

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1.94 go-runtime 1.15.8
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- Aaron Cannon <cannona@fireantproductions.com>
- Aaron France <aaron.l.france@gmail.com>
- Aaron Jacobs <jacobsa@google.com>
- Aaron Kemp <kemp.aaron@gmail.com>
- Aaron Stein <aaronstein12@gmail.com>
- Aaron Torres <tcboox@gmail.com>
- Aaron Zinman <aaron@azinman.com>
- Aarti Parikh <aarti.parikh@gmail.com>
- Abdullah Al Maruf <mymail.maruf@gmail.com>
- Abe Haskins <abeisgreat@abeisgreat.com>
- Abhinav Gupta <abhinav.g90@gmail.com>
- Adam Azarchs <adam.azarchs@10xgenomics.com>
- Adam Bender <abender@google.com>
- Adam Eijdenberg <adam@continusec.com>
- Adam Harvey <aharvey@php.net>
- Adam Kisala <adam.kisala@gmail.com>
- Adam Langley <agl@golang.org>
- Adam Medzinski <adam.medzinski@gmail.com>
- Adam Shannon <adamkshannon@gmail.com>
- Adam Sindelar <adamsh@google.com>
- Adam Thomason <athomason@gmail.com>
- Adam Woodbeck <adam@woodbeck.net>
- Aditya Mukerjee <dev@chimeracoder.net>
- Adrian Hesketh <adrianhesketh@hushmail.com>
- Adrian Nos <nos.adrian@gmail.com>
- Adrian O'Grady <elpollouk@gmail.com>
- Adrien Bustany <adrien-xx-google@bustany.org>
- Adrien Petel <peteladrien@gmail.com>
- Acio Jnior <aecioldantasjunior@gmail.com>
- Aeneas Rekkas (arekkas) <aeneas@ory.am>
- Afanasev Stanislav <phpprogger@gmail.com>
- Agis Anastasopoulos <agis.anast@gmail.com>
- Agniva De Sarker <agnivade@yahoo.co.in>
- Ahmed Wahed <oneofone@gmail.com>
- Ahmet Alp Balkan <ahmetb@google.com>
- Ahmet Soormally <ahmet@mangomm.co.uk>
- Ahmy Yulrizka <yulrizka@gmail.com>
- Aiden Scandella <ai@uber.com>
- Ainar Garipov <gugl.zadolbal@gmail.com>
- Aishraj Dahal <aishraj@users.noreply.github.com>
- Akhil Indurtti <contact@akhilindurtti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@gmail.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandr Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Buffa <alessandro.buffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@gmail.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rodseth <alexander.rodseth@appeartv.com>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@gmail.com>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Striblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.guig@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.haitrinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <alit@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antonin.amand@gmail.com>
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Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaïn <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnda.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilyani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurlien.rainone@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <aw@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@goolgeemail.com>
Ayanamist Yang <ayanamist@gmail.com>
Aymerrick Jhanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatalcenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brrtsgoogle.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenbgolang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <benl@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehu@gmail.com>
Chotepud Teo <AleXRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmilo <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrismith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clément Chigot <clement.chigot@atos.net>
Clement Skau <clementska@gmail.com>
Dominic Green <dominic.green1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <douglas.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbisa@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
 Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Fliek <efliek@gmail.com>
 Eldar Rakhimberdin <ibreono@gmail.com>
Elena Grahovac <elena@grahovac.me>
 Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
 Elliot Morrison-Reed <elliotmr@gmail.com>
 Emerson Lin <linyintor@gmail.com>
 Emil Hessman <emil@hessman.se>
 Emil Mursalimov <mursalimovemee@gmail.com>
 Emilien Kenler <hello@emilienkenler.com>
 Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
 Eric Chiang <eric.chiang.m@gmail.com>
 Eric Clark <zerohp@gmail.com>
 Eric Daniels <eric@erdaniels.com>
 Eric Engestrom <eric@engestrom.ch>
 Eric Garrido <ekg@gmail.com>
 Eric Koleda <ekoleda+devrel@google.com>
 Eric Lagergren <ericscottlagergren@gmail.com>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcudogan@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@google.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguiar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jljatone@gmail.com>
James Meneghelo <rawrz0r@gmail.com>
James Myers <jfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamescooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreamor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevelry@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@gmail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <belemepeoseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponteij@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsad@gmail.com>
Javier Kohen <javen@gmail.com>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayeschwa.net>
Jean de Klerk <deklerk@gmail.com>
Jean-André Santoni <jean.andre.santoni@gmail.com>
Jean-François Cantin <jfcanitin@gmail.com>
Jean-Marc Eurin <jmeurin@gmail.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jjohnson@gmail.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <jereal@gmail.com>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmesen <jeremiah@gmail.com>
Jeremy Banks <_@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Markus Sondergøger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoeftling <martin.hoeftling@gmx.de>
Martin Krichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <mohrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <any.sk+git@gmail.com>
Martin Tournoi <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbuco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@gmail.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@gmail.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewwbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Mathieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knysz <mknyisz@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakanda <pongad@google.com>
Michael Dorner <mail@micaheldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <nicellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcin@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rth@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelma@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@roborahenck.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robf@golang.org>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <robyrkgmail.com>
Robert Sesek <r@sesek@gmail.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zepbob.m@gmail.com>
Robert Clapis <robc@poli.edu>
Robert Selbach <robert@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodlfog@gmail.com>
Rodrigo Moraes de Oliveira <rodricom@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <roygh@gmail.com>
Roger Peppe <rogerpepe@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Shchekin <mrq@tros@gmail.com>
Ron Hashimoto <email@h2so5.net>
Ron Minnich <robinminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@gmail.com> <rlight2@gmail.com>
Ross Smith II <ross.smithii@gmail.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <s@google.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruiu@gmail.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@gmail.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Frolov <sfrolov@google.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Ledbetter <sledbetter@gmail.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shun Fan <sfan@gmail.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steve.morin@gmail.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalina <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeter <steve@stevestreetering.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <sharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshe@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmuel@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
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Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <treat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Ugorji Nwoke <ugorjii@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@gmail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Walter Poupore <wpoupore@gmail.com>
Wander Lairson Costa <wcosta@mozilla.com>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yogui Sonoda <yugui@google.com>
Yukihiro Nishinaka <gelpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzholl@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gersman <zachgersh@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gersman <zgersman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>

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1.103 fdisk 2.35.1

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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
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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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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Modemu Version 0.0.1
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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: DRS is recommended, but is disabled
Should Contain: Memory Limit
Should Contain: Memory Reservation
Should Contain: Memory Shares
Should Contain: CPU Limit
Should Contain: CPU Reservation
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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\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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package license

import (
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))

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 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: "00000-00000-00000-00000-00000-00000",
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
    }
  }

  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

import (    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
    )

type AssignmentManager struct {    object.Common
    }
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This: m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This: m.Reference(),
        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 (
    "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(),

        Labels: mapToKeyValueSlice(labels),
        Key:      key,
    }

    return m.Client.Methods.LicenseManager.AddLicense(ctx, &req)
}
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: mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    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 = f[1]
    }
    return lf
}
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"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name string
    remove bool
func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }

    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    if cmd.remove {
        return m.Remove(ctx, id)
    }

    info, err := m.Update(ctx, id, key, cmd.name)
    if err != nil {
        return err
    }
}
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>>> aws_sdk-go.aws-master
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>>> docker_libnetwork-fd2722aa35e3d57188688f919d05b744f431fd
>>> docker_libtrust-9cb2a1374f46905c68a4eb3694a130601adc62a
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>>> syncutil_singleflight-7ce08ca145dfe066a127c447800ce7914f3e4f9
>>> vdemeester_shakers-24d7f1d6a71aa5d9cbe7390e4af66b7ee9e1b3
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>>> grpc-b1a2821ca5a4fd6b6e48ddfb7d67584d839d21
>>> hpccloud_tail-a30252cb686a21eb2d2db098132633053ec27f1e5
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>>> mailru_easyjson-99e922cf9de1be0ab38310c277e3f32e2147e747
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>>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff557797ec5c
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff557797ec5c
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> ncurses-6.0-14.ph2
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>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-5.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
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>>> logrotate-3.11.0-3.ph2
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>>> net-tools-1.60-11.ph2
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>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-4.ph2
>>> util-linux-2.32-1.ph2

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffbb9cbe4073ef11f88e6069ca4a2e6aa6676b

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

Go-nfs-client version 0.1

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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6

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tomb - support for clean goroutine termination in Go.

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See http://libtom.org/?page=features&newsitems=5&whatfile=crypt.
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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_net_context-a6577fac2d73be281a500b310739095313165611

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/third_party/moduleloader/

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

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>>> curl-7.59.0-3.ph2

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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_imp_name.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
lib/krb5/error_tables/kdb5_err.et
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rijndael-alg-fst.c

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

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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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TH su 1 "18 August 1999" "GNU Shell Utilities 20"

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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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extensions
libip6t_HL.c

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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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.

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```

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```

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mkinstalldirs --- make directory hierarchy
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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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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: poe $
$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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error.c -- Functions for handling errors.

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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 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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/ Bison implementation for Yacc-like parsers in C


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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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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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Version 3, 29 June 2007

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Version 1.1 - 26 February 2007
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You can become the Current Maintainer of the Work by agreement with any existing Current Maintainer to take over this role.

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1. Make a reasonable attempt to trace the Current Maintainer (and the Copyright Holder, if the two differ) through the means of an Internet or similar search.

2. If this search is successful, then enquire whether the Work is still maintained.
   a. If it is being maintained, then ask the Current Maintainer to update their communication data within one month.
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3a. If the Current Maintainer is reachable and agrees to pass maintenance of the Work to you, then this takes effect immediately upon announcement.
   b. If the Current Maintainer is not reachable and the Copyright Holder agrees that maintenance of the Work be passed to you, then this takes effect immediately upon announcement.

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A change in the Current Maintainer does not, of itself, alter the fact that the Work is distributed under the LPPL license.

If you become the Current Maintainer of the Work, you should immediately provide, within the Work, a prominent and unambiguous statement of your status as Current Maintainer. You should also announce your new status to the same pertinent community as in 2b) above.

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```latex
generated_filename.dtx
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This work has the LPPL maintenance status "maintained".

The Current Maintainer of this work is M. Y. Name.

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incompatible) replacement of the original Work. If this is not the case (e.g., if a few lines of code are reused for a completely different task), then clauses 6b and 6d shall not apply.

Important Recommendations

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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)
}

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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

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http://github.com/gogo/protobuf

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

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# 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.Sprintf(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{}{
            "some": "info",
        },
        Session: map[string]interface{}{
            "session": "12345",
        },
        Params: map[string]interface{}{
            "param": "value",
        },
    }
    return notice
}
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"

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

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

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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>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
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>>> 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
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spec-e072eb2390d3a03736a6eb617d30f48369160447.tar.gz/spec-e072eb2390d3a03736a6eb617d30f48369160447.tar/spec-e072eb2390d3a03736a6eb617d30f48369160447/fixtures/expansion/invalid-refs.json

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>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ff8b9cbe4073ef1f88e6069ca4a2c6a6676b

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>>> go-martini/martini-22fa46961aabd2665cf1343b146d20028f5071

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>>> godbus_dbus-230e4b23db2fd81e53eaa0073f76659d4849ce51

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>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f

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>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e

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```bash
>> mdlayher/ethernet-e72cf8343052938936194daba1914fd1bb33d2fe
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```bash
>> mdlayher/raw-c83864e487652c25edc58048eafdc1dfa2f142c7
```

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>>> mitchellh_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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It was heavily inspired by the go blowfish package.

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>>> x_sys_unix-99f16d856c9836c42d24e7ab64ea72916925fa97

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+build appengine
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```bash
>>> x_tools_imports-381149a2d6e5d8f319ccf04bfefc71e03a78b868
```

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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
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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@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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@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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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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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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4.9.154.tar\crypto\drbg.c
```

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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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```
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linux-esx-4.9.154-1.ph2.src.cpio
linux-4.9.154.tar.xz
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Documentation/scsi/dpti.txt
```

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linux-4.9.154.tar.xz
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Documentation/trace/ftrace.txt
```

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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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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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error.c -- Functions for handling errors.

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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/parser-built

A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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coreutils-8.27.tar.xz\coreutils-8.27.tar\coreutils-8.27\lib\alloca.c

(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.

>>> elfutils-0.169-3.ph2

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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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kmod-24.tar.xz\kmod-24.tar\kmod-24\tools\rmmod.c

kmod-insert - insert a module into the kernel.

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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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Version 3, 29 June 2007

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Version 1.1 - 26 February 2007
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-------------------------

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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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*/

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)
    }

    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
        // LicenseAssingmentManager.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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Dynamic NDArray Developers list:

* Mark Wiebe
* Continuum Analytics

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## libssh2

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1.126 quota 4.01

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1.127 go-oidc 2.2.1+incompatible

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1.129 html5lib 1.0.1

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1.130 erlang-otp 5.10

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 */

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jlooup@gzip.org          madler@alumni.caltech.edu
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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[[edoc, syntax_tools]]

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Written by: Philip Hazel
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O’Grady <elpolrouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aecciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrk <aakturk000@gmail.com>
Ahmet Alp Balkan <ahmetb@gmail.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Ajanthan Balachandran <balaajanthan@gmail.com>
Akhil Indurti <aindurti@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Ananya Saxena <ananyasaxena1@gmail.com>
Anatol Pomozyov <anatol.pomozyov@gmail.com>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <conto@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andr Martins <aann90@gmail.com>
Andre Nathan <andrenth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Simonini <andrea.simonini@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andreii@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andreii@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@google.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewayclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew G. Morgan <agm@google.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@gmail.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpiloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan Boreham <bjboreham@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <c@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@gmail.com>
Carl Menezes <carleeto@gmail.com>
Carl Shapiro <cshapiro@golang.org> <cshapiro@google.com>
Carlsia Campos <carlsia@grokkingtech.io>
Carlo Alberto Ferraris <cafx@strayorange.com>
Carlos Alexandre Becker <caarlos0@gmail.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Iriarte <ciriarte@gmail.com>
Carlos Souza <carloseshouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Carson Hoffman <c@rsonhoffman.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@gmail.com>
Catalin Patulea <catalinp@gmail.com>
Cathal O'Callaghan <cathalsocallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatalcenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@google.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charles.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill.google.com>
Charlie Moog <moogcharlie@gmail.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncyc@google.com>
Chen Zhidong < njutczd@gmail.com>
Chen Zhihan < energiehund@gmail.com>
Cherry Mui < cherryyz@google.com>
Chew Choon Keat < choonkeat@gmail.com>
Chiwen Chen < golopot@gmail.com>
Chirag Sukhala < cchirag77@gmail.com>
Cholerae Hu < choleraehyq@gmail.com>
Chotepud Teo < AlexRouSg@users.noreply.github.com>
Chris Ball < chris@printf.net>
Chris Biscardi < chris@christopherbiscardi.com>
Chris Broadfoot < cbro@golang.org>
Chris Dollin < ehog.hedge@gmail.com>
Chris Farmilo < chrisfarms@gmail.com>
Chris Hines < chris.cs.guy@gmail.com>
Chris Howey < showeyc@gmail.com>
Chris Hundt < hundt@gmail.com>
Chris Jones < chris@cjones.org> < chris.jones.yar@gmail.com>
Chris Kastorff < encryptio@gmail.com>
Chris Le Roy < brompwnie@users.noreply.github.com>
Chris Lennert < calennert@gmail.com>
Chris Liles < caveryliles@gmail.com>
Chris Manghane < cmang@golang.org>
Chris Marchesi < chrism@vanclueverttech.com>
Chris McGee < sirnewton_01@yahoo.ca> < newton688@gmail.com>
Chris Raynor < raynor@gmail.com>
Chris Roche < rodaine@gmail.com>
Chris Smith < chrsmith@users.noreply.github.com>
Chris Stockton < chrisstocktonaz@gmail.com>
Chris Taylor < taylorza@gmail.com>
Chris Waldon < christopher.waldon.dev@gmail.com>
Chris Zou < chriszou@ca.ibm.com>
Christian Alexander < christian@linux.com>
Christian Couder < chriscool@tuxfamily.org>
Christian Himpel < chressie@googlemail.com> < chressie@gmail.com>
Christian Muehlhaeuser < muesli@gmail.com>
Christian Pellegrin < chri@evolware.org>
Christian R. Petrin < christianpetrin@gmail.com>
Christian Svensson < blue@cmd.nu>
Christine Hansmann < chhansmann@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <dmathieu.com>
Damien Neil <dneil@gmail.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@google.com>
Dan Johnson <computerdruid@gmail.com>
Dan McArdle <dmcardle@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@google.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cohen <dcohen@gatech.edu>
Daniel Cormier <danielc@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin (<d.kerwin@gini.net>
Daniel Kessler <dkess@google.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <danielspeichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppe.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@gmail.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.rmc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Pifke <dave@pifke.org>
Dave Russell <forfuncssake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Black <dblack@atlassian.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <dchase@google.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <djones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <corusus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David Qu <davidquil2345@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
Dmitrii Okunev <xaionaro@gmail.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitry Vyukov <dvyukov@yandex.ru>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Mottl <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Doga Financ <doga@icloud.com>
Domas Tamauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Della Valle <ddvpunch@Gmail.com>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbifyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <doug@yandex.ru>
Doug Fawley <dfawley@yandex.ru>
Douglas Danger Manley <douglasmanley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <drewhintz@yandex.ru>
Drew Richardson <drewrichardson@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <email@frou.org>
Dustin Carlino <dcarlino@yandex.ru>
Dustin Herbison <dherbison@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvin@everything.me> <dvin@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@yandex.ru>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@yandex.ru>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
GitHub User @hqpko (13887251) <whaibin01@hotmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazys.hr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>
GitHub User @Kropekki (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @lh2617 (33488131) <li.lie2617@gmail.com>
GitHub User @linguohua (3434367) <lhchinhuaide@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncncim (21333876) <micncncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_ll@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <flixin20101023@gmail.com>
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GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprogress@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
James Toy <nil@opensesame.st>
James Treanor <jtreonor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevelry@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@gmail.com>
Jamie Kerr <jkgerr113@gmail.com>
Jamie Liu <jamie.liu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <jidadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercel <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poeplko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jhuberel@gmail.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponte@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrn@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniaci7@gmail.com>
Jason Wangsadinata <jwanggsadinata@gmail.com>
Javier Kohen <jikohen@gmail.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Chen <chenjie@chenjie.info>
Jay Conrod <jayconrod@gmail.com>
Jay Lee <BusyJayLee@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jaychwa.net>
Jean de Klerk <deklerk@gmail.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dkn@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Courtney <euphemize@gmail.com>
Joel Ferrier <joelferrier@ google.com>
Joel Sing <joel@sing.id.au> <jsing@ google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@ users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Jansson <johan.jansson@iki.fi>
Johan Knutzen <johan@senri.se>
Johan Sageryd <j@1616.se>
Johannes Huning <johannes.huning@gmail.com>
John Asmuth <jasmuth@gmail.com>
John Bampton <jampton@gmail.com>
John Beasley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@jgilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jago <johnjago@protonmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggyy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John McCabe <john@johnmccabe.net>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lize Cai <lizzzca1@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Llus Batlle i Rossell <viric@viric.name>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Luca Spiller <luca@stackednotion.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieffolo <luigi.riefollo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Shumaker <lukeshu@datawire.io>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Matt Juran <thepeciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <nstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@orange.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Mathias Frei <mathias.frei@inf.ethz.ch>
Mathieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@appelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <gIraniq@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroouy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Mehrad Sadeghi <2012.linkinpark@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Mia Zhu <MiaZhu1025getu@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michel Levieux <mlevieux42@gmail.com>
Michele Di Pede <michele.di.pede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leyb.org>
Mike Danese <mikedianese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Fesenko <proggsa@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikiohmikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydeomeo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Mohit Verma <vmohit.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammad Hamza Farrukh <hamzafarrukh141@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Muir Manders <muir@mnd.rs>
Mukesh Sharma <sharma.mukesh439@gmail.com>
Mura Li <mura_li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Nahum Shalman <nahamu@gmail.com>
Naman Aggarwal <aggarwal.nam@gmail.com>
Naman Gera <n mansion@gmail.com>
Nan Deng <nomnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Natanael Copa <ncopa@mirantis.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza < mastercactapus@gmail.com>
Nathan Dias <nathan.dias@ori jtech.com>
Nathan Fiscaletti < nathan.fiscaletti@vrazo.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness < ot ternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nv anbenschoten@gmail.com>
Nathan Youngman <git@ nathany .com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neeilan Selvalingam < neeilan96@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Nehal J Wani <nehaljw.kkd1@gmail.com>
Neil Lyons <nwljlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Asimov <nicholas@asimov.me>
Nicholas Katsaros <nick@nicks aros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickingsta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
Omar Jarjur <ojarjur@google.com>
Onkar Jadhav <omjadhav2610@gmail.com>
Ori Bernstein <ori@eigenstate.org>
Ori Rawlings <orirawlings@gmail.com>
Oryan Moshe <siamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Caderno <kaderno@gmail.com>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Pan Chenglong <1004907659@qq.com>
Panos Georgiadis <pgeorgiadis@suse.de>
Pantelis Sampaziotis <psampaz@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkermoore@gmail.com>
Parminder Singh <parsingsingh101@gmail.com>
Pascal Dierich <pascal@pascaldierich.com>
Pascal S. de Kloe <pascal@quies.net>
Paschalis Tsilias <paschalis.tsilias@gmail.com>
Pasi Thkp <pasi.tahkapaa@gmail.com>
Pat Moroney <pat@pat.email>
Patrick Barker <barkerp@vmware.com>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Gundlach <gundlach@speedata.de>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Jones <sithuriel@google.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrice Pelletier <sp.pelletier@gmail.com>
Patrick Riley <spfr@google.com>
Patrick Smith <pat42smith@gmail.com>
Open Source Used In IOS XR Software 7.6.1 2737

Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan@google.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiura <s.shota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <sya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simaogmv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiyang <songjiyangl@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Open Source Used In IOS XR Software 7.6.1  2742

Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangjparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grel <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvivic@valentin-vidic.from.hr>
Vaughn Iverson <svsivsi@yahoo.com>
Vee Zhang <veezhang@126.com> <veezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturayv <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimyze.cloud>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishal Dalwadi <dalwadivishal26@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhars@gmail.com>
Vivek V <iamvivekv96@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotsky <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
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1.139 google-api-go-client 0.9.0

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Andrew Gerrand <adg@golang.org>
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1.141 python-requests 2.3.0

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1.143 librabbitmq 0.10.0

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1.151 cloud-google-com-go 0.56.0

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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()
    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" {
            // 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
        }
        // Check for license header.
        for _, s := range sentinels {
            if strings.Contains(string(src), s) {
                return nil
            }
        }
        // File should contain license header.
        return t.Errorf("license missing in %s", path)
    })
}

Open Source Used In IOS XR Software 7.6.1 2942
// 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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1.152 scapy 1.10.0

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{  
  "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"
]
}

1.153 readline 6.3

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Local Variables:
ispell-local-pdict: "ispell-dict"
End:

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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, dectestation, 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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1.160 google-uuid 1.1.1

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Paul Borman <borman@google.com>
bmatsuo
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The End

1.164 rsync 3.1.3
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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.

The license for the library files in this project was therefore changed to
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1.166 mergo 0.3.6

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.167 paho-mqtt 1.5.0

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1.168 go-runtime 1.8.1

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Aron Nopanen <aron.nopanen@gmail.com>
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Arvind Rajesh Tamilmani <art299396@gmail.com>
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Balazs Lecz <leczb@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Lubar <ben.lubar@gmail.com>
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Gaal Yahas <gaal@gmail.com>
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Geert-Johan Riemer <gjr19912@gmail.com>
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Georg Reinko <geurelfast@gmail.com>
George Shammas <george@shammas.com> <georgyo@gmail.com>
Gerasimos Dimitriadis <gdim@troy.edu>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
Giulio Iotti <dullgiulio@gmail.com>
Glenn Brown <glennb@gmail.com>
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Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
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Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
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Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
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Kevin Burke <kev@inburke.com>
Kevin Kirsche <kev.kirsche@gmail.com>
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Kevin Malachowski <chowski@google.com>
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Lee Hinman <hinman@gmail.com>
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Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajec <tr00.g33k@gmail.com>
Luke Curley <qpingu@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marco Hennings <marco.hennings@freheit.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Momchil Velikov <momchil.velikov@gmail.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <mosheveds@gmail.com>
Mrunal Patel <mrunalp@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Nan Deng <monnand@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Nevins Bartolomeo <nevis.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@google.com>
Nick Leli <nicholasleli@gmail.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Niko Dziemba <niko@dzieamba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Noah Campbell <noahcampbell@gmail.com>
Nodir Turakulov <nodir@gmail.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Peter Gonda <pgonda@google.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Mundy <go.peter.90@gmail.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Pter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Surnyi <speter.go1@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Preetam Jinka <pj@preet.am>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quoc-Viet Nguyen <afelion@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjecزال@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naifah <go@naifah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Rebecca Stambler <rstambler@golang.org>
Reinaldo de Souza Jr <juniorz@gmail.com>
Rmy Oudompheng <oudompheng@phare.normalesup.org> <remyoudompheng@gmail.com>
Rhys Hiltnor <rhys@justin.tv>
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1.169 go-mssqldb 0.0.0-20200428022330-06a60b6afbbc

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1.171 asyncio 3.7.6
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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, 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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// 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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This package was debianized by Sam Clegg <samo@debian.org> on Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

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// 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
}
1.181 libgpg-error 1.37

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1.188 lvm2 2.02.97

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1.190 grep 3.4

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1.202 nss 3.60

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Ajay Joshi <jaj@google.com>
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Chris Prince <cprince@gmail.com>
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1.209 gnutls 3.6.14

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## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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Go support for Protocol Buffers - Google's data interchange format

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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)
}

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func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintf(buf, '//', s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintf(buf); err != nil {
        panic(err)
    }
}
panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
log.Printf("adding copyright to %s", path)
src, err := os.Open(path)
if err != nil {
return err
}
del := false
for scanner.Scan() {
line++
txt := scanner.Text()
if line == 1 && strings.Contains(txt, "Copyright") {
if del {
}
continue
}
if del {
s := strings.TrimSpace(txt)
if len(s) == 0 {
}
continue
}
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
        }
        // Process path
    }
}
}
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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1.234 godo 1.7.5

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1.235 igb 5.5.2-r0

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1.245 jcmtturner-goidentity 6.0.1

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1.248 hd-parm 9.58

1.249 python 3.8.11

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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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/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
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/*
* hmac.c is derived from:

Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
   UCSD
      R. Canetti
   IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smime/tools/cmsutil.c. Therefore:

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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sections when you distribute them as separate works. But when you
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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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
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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1.257 gnutls 3.6.14-r0
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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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.

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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.

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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##
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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

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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.

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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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@(#) SRCSCfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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1.271 streadway-amqp 1.0.0

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1.272 selinux 3.0-r0

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1.274 go-autorest-auth 0.4.2

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1.275 jansson 2.13.1-r0

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1.276 mgo 2.0.0-20180705113604-9856a29383ce

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1.277 go-bindata-assetfs 0.0.0-
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1.278 zlib 1.2.5

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1.279 psmisc 22.21

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hirosi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanth Menon
Ameya Palande
Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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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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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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1.283 tcl 8.6.6

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AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/tcl

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1.284 zeromq 4.1.5

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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/@WBRSRIBZhBFXQB6/>
* 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 <slingamm@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 <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 <kprasadiitd@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.ResponseEntity`.

* 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 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 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

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

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1.293 json-c 0.12
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1.294 x-sys 0.0.0-20201024232916-9f70ab9862d5

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1.295 setools 4.3.0

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1.302 parted 3.3-r0

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# Please keep the list sorted.
Alex Vaghin <crhyme@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alex.d.ch>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexis.alexander.larsson@gmail.com>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <1k4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxtal.net>
Alexander Polcyn <apopolcyn@gmail.com>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surma.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Borzenkov <snaer@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amrut Joshi <amrut.joshi@gmail.com>
Anders Pearson <anders@columbia.edu>
Andr Carvalho <asantostc@gmail.com>
Andre Nathan <andreth@gmail.com>
Andrea Spadaccini <sparaccio@vodafone.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Korzhhevskii <a.korzhhevskiy@gmail.com>
Andrei Vieru <evieru@gmail.com>
Andres Erbsen <andreser@vodafone.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Bursavich <abursavich@gmail.com>
Damien Neil <dneil@google.com>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasí <dnadasí@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daria Kolistratova <daria.kolistratova@intel.com>
Darren Elwood <darren@textnode.com>
Datong Sun <ndnx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Chase <dchase@gmail.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@gmail.com>
David Jakob Fritz <david_jakob_fritz@gmail.com>
David Lazar <lazard@golang.org>
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David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
David Volquartz Lebech <david@lebech.info>
Davies Liu <davies.liu@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <shurcool@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com>
Dmitriy Vyukov <dvyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@gmail.com>
Doug Fawley <dfawley@google.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Eden Li <eden.li@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elias Naur <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliiken@gmail.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Erik Aigner <aigner.ek@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euankeuank.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Open Source Used in IOS XR Software 7.6.1

Jon Chen <jchen@justin.tv>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jungho Ahn <jahn@google.com>
Jure Ham <jure.ham@zemanta.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmler <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <aboulishosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hu kangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karoly Negyesi <chx1975@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
KB Sriram <kbsriram@google.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzo.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@gmail.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyrizo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiashan <eag0628@gmail.com>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louis@google.com>
Luan Santos <cfcluan@gmail.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehar <ludi317@gmail.com>
Luigi Riefo <luigi.riefo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lnmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeake2017@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo E. Magallón <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freieit.com>
Marga Manterola <marga@google.com>
Marin Babi <marin.basic02@gmail.com>
Marius Nuennerich <mnv@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mbucc@gmail.com>
Mark Harrison <marhar@google.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.marc@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@google.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrlé <martin.hamrl@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Mateusz Czapliski <czapliski@chromium.org>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <mosheve@ds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@ymail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@me.com>
Nathaniel Cook <nvcook42@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Neil Lyons <nj@nylyons@me.com>
Neuman Vong <neuman.vong@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaras <nickerick@yahoo.com>
Nicholas Maniscalco <njnch@maniscalco.com>
Nicholas Presta <nick@ninja.ca>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@me.com>
Nick Craig-Wood <nick@craig-wood.com>
Nick Harper <nharper@gmail.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <n@miyake.ninja>
Nick Patavalis <shipman@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nicolas Kaiser <nikai@wikimedia.org>
Nicolas Owens <mischief@offblasts.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <0golang.org@gmail.com>
Nik Nyby <nnby@columbia.edu>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turkito <nikolay@turkito.com>
Niranjan Godbole <mrranjjan81@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Nodir Turakulov <nodir@google.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <img@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osainre@gmail.com>
Omar Jarjur <ojarjur@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mtmnpaolo@gmail.com>
Parker Moore <parkmoore@gmail.com>
Pascal S. de Kloe <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyschack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@pattikmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat42smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@gmail.com>
Paul Chang <paulchang@gmail.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul Marks <pmarks@gmail.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
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Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Surnyi <speter.go1@gmail.com>
Peter Szab <pts@gmail.com>
Peter Szilgyi <peterke@gmail.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwill3058@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Roulion <pierre.roulion@gmail.com>
Piers <google@hellowpier.s.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Yu Heng Zhang <sannita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuki Yugui Sonoda <yugui@google.com>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zak <zrjknill@gmail.com>
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1.310 libpciaccess 0.16-r0
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1.311 openmp 10.0.1-r0
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; NOTE: Assertions have been autogenerated by utils/update_ltc_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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define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}

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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:

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; 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
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; 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]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -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

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
}

@goo = global i8* undef

define void @foo_i16() {
  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
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: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; 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: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; 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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Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Milliken <jmilliken@stripe.com>
Jussi Knuutila <jussi.knuutila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
Matt Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson <nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Pascal Leroy <phil@gmail.com>
Paul Redmond <paul.redmond@gmail.com>
Pierre Phaneuf <pphaneuf@gmail.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
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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=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 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

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; 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 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_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree 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_prefer512_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 promote
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:.*]])
; 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>* [[ARG1]], 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_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:%.*]])
; 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 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_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) [[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_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 {
; CHECK-LABEL: define {{[^@]+}} @callee_avx512_legal512_prefer512_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>* [[ARG1]], 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_prefer1252_call_avx512_legal512_prefer256(%8 x i64)* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer1252_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* align 32 %tmp3, i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer1252_call_avx512_legal512_prefer256(%8 x i64>* noalias nocapture noreference nonnull writeonly align 32 dereferenceable(64) [[TMP2]], %8 x i64>* noalias nocapture noreference 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_prefer1252_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_prefer1252(%8 x i64>* %arg, %8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer1252
; CHECK-SAME: (<8 x i64>* noalias nocapture noreference nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture noreference 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_prefer1252_call_avx512_legal512_prefer256(%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

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %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>* [[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>* %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>* 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 noca...nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias noca...nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: 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 {
    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_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
}

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
}

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define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  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_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 void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

; CHECK-NEXT: ["\[\[\]^\]+\] @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-NEXT: store <8 x i64> ["\[\[\]^\]\]] <8 x i64>* ["\[\[\]^\]\]]
; CHECK-NEXT: ret void
; 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" "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
VLM512-LABEL: 'zext256'

VLM512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>

VLM512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>

VLM512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>

VLM512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>

VLM512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>

VLM512-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

%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

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

%A = zext <8 x i16> undef to <8 x i64>

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>
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 <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = 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 <16 x i8> undef to <16 x i32>
 %D = sext <16 x i16> undef to <16 x i32>
 %E = sext <32 x i8> undef to <32 x i16>
 ret void
}
%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
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
ret void
}

define void @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: vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%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
ret void
}

define void @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>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    %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 = lshr <64 x i32> %5, 7
    %7 = trunc <64 x i32> %6 to <64 x i8>
    store <64 x i8> %7, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    %1 = load <32 x i16>, <32 x i16>* %APtr
    %2 = load <32 x i16>, <32 x i16>* %BPtr
    %3 = zext <32 x i16> %1 to <32 x i32>
    %4 = add nuw nsw <32 x i32> %3, %2
    %5 = lshr <32 x i32> %4, 6
    %6 = trunc <32 x i32> %5 to <32 x i16>
    store <32 x i16> %6, <32 x i16>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    %1 = load <32 x i16>, <32 x i16>* %APtr
    %2 = load <32 x i16>, <32 x i16>* %BPtr
    %3 = zext <32 x i16> %1 to <32 x i32>
    %4 = add nuw nsw <32 x i32> %3, %2
    %5 = lshr <32 x i32> %4, 6
    %6 = trunc <32 x i32> %5 to <32 x i16>
    store <32 x i16> %6, <32 x i16>* undef, align 4
    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:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
    ; 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
}
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%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

undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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
}

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
 ; CHECK-NEXT: _LBB9_1: # %vector.body
 ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
 ; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
 ; CHECK-NEXT:  vpmaddwd %zmm2, %zmm2, %zmm2
 ; CHECK-NEXT:  vpmaddwd %zmm1, %zmm1, %zmm1
 ; CHECK-NEXT:  addq $32, %rcx
 ; CHECK-NEXT:  cmpq %rcx, %rax
 ; CHECK-NEXT:  jne .LBB9_1
 ; CHECK-NEXT:     # %bb.2: # %middle.block
 ; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
 ; CHECK-NEXT:  addq %r8d, %r8d
 ; CHECK-NEXT:  cmpq %r8d, %r8d
 ; CHECK-NEXT:  jne .LBB9_1
 ; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
 ; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
 ; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
 ; CHECK-NEXT:  ret i32 %13
}
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vneg $v9, %v8
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%6 = sext <32 x i8> %5
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%9 = sext <32 x i8> %8
%10 = mul nsw <32 x i32> %9
%11 = add nsw %11
%12 = icmp eq i64 %11, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %index.next, %vector.body
%rdx.shuf = shufflevector <32 x i32> %rdx.shuf1
%bin.rdx = add <32 x i32> %rdx, %rdx.shuf1
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32

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%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 nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1> %8 = sub nsw <16 x i32> zeroinitialzier, %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, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %.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 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, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK:    # %bb.0: # %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT: .LBB11_1: # %vector.body
 ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:    vmovdqu a+1024(%rax), %zmm1
 ; CHECK-NEXT:    vpsadbw b+1024(%rax), %zmm1
 ; CHECK-NEXT:    vpadd %zmm0, %zmm1, %zmm0

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: sbto16f32_256:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: kshiftrw $8, %k0, %k1  
; CHECK-NEXT: vpmovm2d %k1, %ymm0  
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0  
; CHECK-NEXT: vpmovm2d %k0, %ymm1  
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1  
; CHECK-NEXT: vmovaps %ymm1, (%rdi)  
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %l = 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 %zmm0, %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  
  %l = 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:  

define void @sbtol6f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" 
{
    ; CHECK-LABEL: sbtol6f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vpmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vpmovaps %ymm1, 96(%rdi)
    ; CHECK-NEXT:    vpmovaps %ymm0, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubtol63f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" 
{
    ; CHECK-LABEL: ubtol63f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpsrlq $31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; 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
}
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvtqd2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtqd2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  shiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtqd2pd %xmm2, %ymm3
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtqd2pd %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)
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: vpmovm2d %k0, %zmm0  
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0  
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1  
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0  
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0  
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)  
; CHECK-NEXT: vmovaps %zmm1, (%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <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: vmovdq16 %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), %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: vmovdq16 %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_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %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_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %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 void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    %a = load <64 x i8>, <64 x i8>* %a
    %mask = fptosi <64 x i8> %a to <64 x i1>
    %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitializer
    ret <64 x i8> %select
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:  # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
  zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
  zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-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-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm3 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroninitialize
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  trunc_v16i64_v16i32:
; CHECK:
; # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vpmovqd %ymm1, %xmm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm1
; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}

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:  vpmovq %ymm3, %xmm3
; CHECK-NEXT:  vpmovq %ymm2, %xmm2
; CHECK-NEXT:  vpmovq %ymm1, %xmm1
; CHECK-NEXT:  vpmovq %ymm0, %xmm0
; CHECK-NEXT:  vpmovq $1, %xmm2, %ymm0
; CHECK-NEXT:  vpmovq $1, %xmm1, %ymm1
; CHECK-NEXT:  vpmovq $1, %xmm0, %ymm0
; CHECK-NEXT:  vpmovq $1, %xmm2, %ymm2
; CHECK-NEXT:  vpmovq $1, %xmm1, %ymm1
; CHECK-NEXT:  vpmovq $1, %xmm0, %ymm0
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %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: vmovdqa %ymm0, %xmm0
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT: vpmovdbq {%.*#*} 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: vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT: vmovdqa %ymm0, %xmm0
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT: vpmovdbq {%.*#*} 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 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: vpmovqwb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovdqa 32(%rdi), %ymm0
    ; CHECK-NEXT: vpmovqwb %ymm0, %xmm0
    ; CHECK-NEXT: vpmovqwb {%.*#*} 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-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i32>
    ret <8 x i32> %b
}

#define 16

; 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 32(%rdi), %ymmm1, %ymmm2, %ymmm0
; 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_v16i6_zeros(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  trunc_v16i32_v16i6_zeros:
; 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]
; CHECK-NEXT:  vpermi2w 32(%rdi), %ymmm1, %ymmm0
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeros(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeros:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:  vpsrlw S8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpacksusb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpmovq {{.*#*}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
; CHECK-VBMI-LABEL:  trunc_v32i16_v32i8_zeros:
; 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), %ymmm1, %ymmm0
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}
define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v8i64_v8i32_sign:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm1
  ; CHECK-NEXT: vpsraq $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, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
  %c = trunc <8 x i64> %b to <8 x i32>
  ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i32_v16i16_sign:
  ; 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]
  ; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
  ; CHECK-NEXT: retq
  %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, i32 16>
  %c = trunc <16 x i32> %b to <16 x i16>
  ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
  ; CHECK-AVX512:     # %bb.0:
  ; CHECK-AVX512-NEXT: vpsraw $8, 32(%rdi), %ymm0
  ; CHECK-AVX512-NEXT: vpsraw $8, (%rdi), %ymm1
  ; CHECK-AVX512-NEXT: vpcksswb %ymm0, %ymm1, %ymm0
  ; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
  ; CHECK-AVX512-NEXT: retq
  ;
  ; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
  ; CHECK-VBMI:     # %bb.0:
  ; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
  ; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
  ; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
  ; CHECK-VBMI-NEXT: retq
  %a = load <32 x i16>, <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>
  %c = trunc <32 x i16> %b to <32 x i8>
  ret <32 x i8> %c
}
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: zext_v16i8_v16i64:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm1 = xmm0[0],zero,zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero
    ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm1 = xmm1[0],zero,zero,xmm1[1],zero,zero,xmm1[2],zero,zero,xmm1[3],zero,zero
    ; CHECK-NEXT: vpmovzxwb {{.*#+}} ymm0 = xmm0[0],zero,zero,xmm0[1],zero,zero,xmm0[2],zero,zero,xmm0[3],zero,zero,xmm0[4],zero,zero,xmm0[5],zero,zero,xmm0[6],zero,zero,xmm0[7],zero,zero,xmm0[8],zero,zero,xmm0[9],zero,zero,xmm0[10],zero,zero,xmm0[11],zero,zero,xmm0[12],zero,zero,xmm0[13],zero,zero,xmm0[14],zero,zero,xmm0[15],zero
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
    ; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
    ; CHECK-NEXT: vmovdqa %ymm2, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

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: vpmovzsxbw %xmm0, %ymm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw %xmm1, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw %xmm3, %ymm3
    ; CHECK-NEXT: vpmovzxvw %ymm0, 64(%rdi)
    ; CHECK-NEXT: vpmovzxvb %ymm0, %rdi
    ; CHECK-NEXT: vpmovzxvw %ymm1, %rdi
    ; CHECK-NEXT: vpmovzxvw %ymm2, 32(%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}
 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 i16> %s, %t
 %b = select <8 x i16> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, <8 x i64>* %r
 ret void
}

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 i32> %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: vpmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}%k2
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}%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 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: vpmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}%k2
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}%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 i16> %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>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:  vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <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>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c
    %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" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  retq
    ret <64 x i1> %x
}
define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {  
; CHECK-LABEL: v64i1_shuffle:  
; CHECK:       # %bb.0: # %entry  
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1  
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm0  
; CHECK-NEXT:    vptestnmb %ymm1, %ymm1, %k0  
; CHECK-NEXT:    kshiftrd $1, %k0, %k1  
; CHECK-NEXT:    movq $-3, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $62, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-5, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $61, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-9, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $60, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-17, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $59, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-33, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $58, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-65, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $57, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-129, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $56, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
; CHECK-NEXT:    movq $-257, %rax  
; CHECK-NEXT:    kmovq %rax, %k2  
; CHECK-NEXT:    kandq %k2, %k1, %k1  
; CHECK-NEXT:    kshiftlq $63, %k0, %k2  
; CHECK-NEXT:    kshiftrq $55, %k2, %k2  
; CHECK-NEXT:    korq %k2, %k1, %k1  
}
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-129, %rax
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $6, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $56, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $9, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $55, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $8, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $54, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $11, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $53, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $10, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $52, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $13, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $51, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k1, %k1
; CHECK-NEXT:   kshiftrd $12, %k0, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $50, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $15, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $49, %k2, %k2
; CHECK-NEXT:    kshiftrd $49, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-32769, %rax # imm = 0xFFF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $14, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $48, %k2, %k2
; CHECK-NEXT:    kshiftrd $48, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65537, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $17, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %k2, %k2
; CHECK-NEXT:    kshiftrd $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFDF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    kshiftrd $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFBBFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
; CHECK-NEXT:    kshiftrd $45, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    kshiftrd $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $43, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $20, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $42, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4194305, %rax # imm = 0xFFBFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $23, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $41, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8388609, %rax # imm = 0xFF7FFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $22, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $40, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $25, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $39, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $24, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $38, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-67108865, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $27, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $37, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $26, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $36, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-268435457, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $29, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $35, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-536870913, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $28, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $34, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $31, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $33, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT: kshiftrd $30, %k0, %k0
; CHECK-NEXT: kshiftlq $63, %k0, %k0
; CHECK-NEXT: kshiftrq $32, %k0, %k0
; CHECK-NEXT: korq %k0, %k2, %k0
; CHECK-NEXT: movabsq $-4294967297, %rax # imm = 0xFFFFFFFFEFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT: kshiftrd $31, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $31, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $30, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $8, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $22, %k2, %k2
korq %k2, %k0, %k0
movabsq $-4398046511105, %rax # imm = 0xFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $11, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $21, %k2, %k2
korq %k2, %k0, %k0
movabsq $-8796093022209, %rax # imm = 0xFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $13, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $19, %k2, %k2
korq %k2, %k0, %k0
movabsq $-17592186044417, %rax # imm = 0xFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $12, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $18, %k2, %k2
korq %k2, %k0, %k0
movabsq $-35184372088833, %rax # imm = 0xFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $15, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $17, %k2, %k2
korq %k2, %k0, %k0
movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $14, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $16, %k2, %k2
korq %k2, %k0, %k0
movabsq $-281479976710657, %rax # imm = 0xFFFFFFFFFFFFFFFF
movq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $17, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $15, %k2, %k2
korq %k2, %k0, %k0
movabsq $-562949953421313, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $16, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $14, %k2, %k2
korq %k2, %k0, %k0
movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $19, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $13, %k2, %k2
korq %k2, %k0, %k0
movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $21, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $12, %k2, %k2
korq %k2, %k0, %k0
movabsq $-4503599627370497, %rax # imm = 0xFFFFFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $20, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $11, %k2, %k2
korq %k2, %k0, %k0
movabsq $-9007199254740993, %rax # imm = 0xFFFBBBBBBBBBBBBBBBB
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $23, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $10, %k2, %k2
korq %k2, %k0, %k0
movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $23, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $9, %k2, %k2
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 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 43, 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, 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 "", "k,k,-{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_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)

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Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
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>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])) CHECK-NEXT: bb:
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>* [[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_avx512_legal512_prefer512_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* %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_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 promote
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>* [[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
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>* [[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_prefer256(8 x i64>* [[TMP2]], 8 x i64>* [[TMP_VAL]])
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(8 x i64>* [[ARG]], 8 x i64>* [[ARG1]], 8 x i64>* [[ARG2]], 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_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 {
; CHECK-LABEL: define {{[^
]+}}@callee_avx512_legal512_prefer512_call_avx512_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 @avx512_legal512_prefer512_call_avx512_legal512_prefer256(8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^
]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:.*]])


; 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>* [[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:%.*]] = 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 = 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_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_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>* [[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_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>* [[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_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_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp3)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; This should promote
  %tmp4 = load <8 x i64>, <8 x i64>* %arg, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @call_avx2_legal256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; CHECK-LABEL: define \([\[^@\]+\]\) @call_avx2_legal256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1]], <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 @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  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 {
  ; CHECK-LABEL: define \([\[^@\]+\]\) @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1]], <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
}

; This should promote
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>* [[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 @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>* [[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* nocapture writeonly, i8, 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" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
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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; 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: cfdctsz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
               metadata !"fpexcept.strict")
               strictfp
  ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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Check that we don't 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
  %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 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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**1.316 glibc 2.19**

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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>

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(at your option) any later version.

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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".

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1.320 setools 4.3.0-r0
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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.

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

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

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

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

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

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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1.332 protobuf 1.23.0

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1.333 sshpass 1.05

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1.335 pycurl 7.19.5

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1.337 okta-okta-sdk-golang 2.0.0

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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
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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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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1.343 zstd 1.4.5-r0

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1.344 perl 5.30.1-r0

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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\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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#!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,}\b/;  # 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) = $output =~ /copyright 1987.*(\d{4,})/i
or die "Copyright statement not found in perl -v output '$output'";

$year;
}

**1.345 containerd 1.4.3**

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1.355 free-type 2.6.5

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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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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* 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 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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### 1.371 gawk 5.0.1-r0

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1.381 go-colorable 0.1.7

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1.382 hashicorp-serf 0.9.5

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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.

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Vesa Jaaskelainen added VBE support.

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### 1.388 Linux-Kernel 3.14.23

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Version 1.0

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Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
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Seth Forshee
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Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
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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. */
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
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*
* M. Welsh, 6 July 1996
*
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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single nxt200x frontend driver.

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1.389 golang-snappy 0.0.2

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1.396 opkg-utils 0.4.2-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
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As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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1.430 go.uber.org/atomi 1.6.0

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1.431 kelseyhightower-envconfig 1.4.0

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1.432 curl 7.79.1

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1.433 python 3.7.6

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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, 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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1.434 gawk 5.0.1
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Email domain: cam.ac.uk

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1.453 pycparser 2.19

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pycparser -- A C parser in Python

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1.455 dbus-glib 0.110

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1.457 hashicorp-logutils 1.0.0

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

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Written by: Philip Hazel
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 version 1.2.3, July 18th, 2005

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

 The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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1.503 go-difflib 1.0.0

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1.514 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/@WBRSRIBZDhBFXQB6/>:
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration
* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

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

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

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

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

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

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

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

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

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

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

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

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

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

* Danilo @dbgrn <http://dbgrn.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 <s6ygl1ez3@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 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 `urlib2.urlopen().geturl()` behavior

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

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1.515 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
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
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
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keebi, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédéric
Margevičius, Algimantas
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Nylander, Daniel
Psa, Petr
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### 1.522 zap 1.14.1

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### 1.523 systemd-conf 244.3-r0

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1.527 keyutils 1.6.1-r0

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1.528 zlib 1.2.3

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

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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
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, 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
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
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
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Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
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Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
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1.530 tcl 8.6.1

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Brian Goff <cpuguy83@gmail.com>
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Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <cerami100@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

    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.
* 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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//-- Code generated by Alibaba Cloud SDK Code Generator.
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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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)

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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)
    response, err := client.GetLicense(request)
    if err != nil {
      errChan <- err
    } else {
      responseChan <- response
    }
  })
  if err != nil {
    errChan <- err
  } else {
    responseChan <- response
  }
  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
}
// 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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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)
}

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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 {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

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"
Message   string     `json:"Message" xml:"Message"
PageCount int        `json:"PageCount" xml:"PageCount"
PageSize  int        `json:"PageSize" xml:"PageSize"
Page      int        `json:"Page" xml:"Page"
Total     int        `json:"Total" xml:"Total"
Success   bool       `json:"Success" xml:"Success"
Data      []DataItem `json:"Data" xml:"Data"
}

// 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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1.548 ipmi-tool 1.8.17

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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 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\nModule-Build mailing list at <module-build@perl.org>.")
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
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  version: 3

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when it starts in an interactive mode:

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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) = $output =~ /\bcopyright\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.551 libgcrypt 1.8.5-r0
1.551.1 Available under license :
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original
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.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@enumerate a
@item Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@item Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@end subheading

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
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You should have received a copy of the GNU Lesser 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.
@end example

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:

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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

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

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

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

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

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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.

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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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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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1.561 initramfs-boot 1.0-r2

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1.563 go-autorest-to 0.4.0

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1.564 protobuf 3.14.0

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Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambroise Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.anthy.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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**1.565 tencentcloud-sdk-go**

**3.0.171+incompatible**

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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
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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/threading.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/legacy/zstd_v01.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_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
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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.c

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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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1.579 go-syslog 1.0.0

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# seit

## 1.581 safestring 4.1.9

### 1.581.1 Available under license :

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```c
/*---------------------------------------------
 * safe_string.h
 *
 * November 2008, Bo Berry
 *
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 */
```

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```c
/*---------------------------------------------
 * strremovews_s.c
 *

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeCtar-gz/safeC/include/safe_string.h
```

No license file was found, but licenses were detected in source scan.
Found in path(s):
*/opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strremovews_s.c

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

# Component identification
$Comp_Name = 'infra/safeC';
$Comp_Code = 'infra-safec';
$Description = 'safeC library';
$Identifier = '0x15A1';

# Exports declaration
@Exports = (
    name=> 'libsafeC.dll',
    cards=> ['all'],
    target_dir=> 'lib',
    implement_apis=> ['safe__mem_primitives_lib__api', 'safe__safe_mem_primitives_lib__api', 'safe__safe_lib_errno__api', 'safe__safe_mem_constraint__api', 'safe__safe_mem_lib__api', 'safe__safe_str_constraint__api', 'safe__safe_string__api', 'safe__safe_str_lib__api', 'safe__safe_types__api'],
    workspace_type => "xr",
),
{  
    name => 'libsafec.so',  
    target_dir => '/opt/cisco/calvados/usr/lib64',  
    workspace_type => "calvados",  
},  
{  
    name => 'safec.hdr',  
},  
{  
    name => 'test_str_safec',  
    description => 'SafeC string test app',  
    cards => [ 'rp' ],  
    target_dir => 'bin',  
    relative_dir => 'test',  
    is_private => 1,  
},  
);

# Tools version declaration
$MetaDataToolsVersion = '5.0'; # Change to a higher version as needed to use new attributes.

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/comp-mdata.pl

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/*------------------------------------------------------------------
* safec_str_lib.h -- Safe C Library String APIs
* 
* October 2008, Bo Berry
* 
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safeC_str_lib.h
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*/

*/

strishex_s.c

* October 2008, Bo Berry

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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strishex_s.c
No license file was found, but licenses were detected in source scan.

# Configuration script for LIBC api testing.
#
# November 2005, Lakshmikanth
#
# Copyright (c) 2005-2006, 2010, 2013 by cisco Systems, Inc.
# All rights reserved.

unittest /vob/cisco.comp/system-infra/safe_libc/test/sesut-test/safe_string_ios.sesut
 start_dir /vob/ios/sys/obj-4k-c7100
 image c7200-adventerprisek9-mz
 ut_flags -g
 build_flags -j16 GDB_FLAG="-g" BIN_SUFFIX=".safe_libc_ut"

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/sesut-test/safe_libc_ut_dpe.conf
No license file was found, but licenses were detected in source scan.

*/

strspn_s.c

* November 2008, Bo Berry

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*/
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strspn_s.c
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/*------------------------------------------------------------------
* safec_mem_lib.h -- Safe C Library Memory APIs
* 
* October 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safec_mem_lib.h
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/*------------------------------------------------------------------
* strlastsame_s.c
* 
* November 2008, Bo Berry
* 
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* All rights reserved
*------------------------------------------------------------------
*/
Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strlastsame_s.c
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/*------------------------------------------------------------------
* strzero_s.c
* 
* October 2008, Bo Berry
* 
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* 
*----------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strzero_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strncmp_s.c
* 
* March 2016, Philip Perricone
* 
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* */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncmp_s.c
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/*------------------------------------------------------------------
* strcpyfldin_s.c
* 
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* */

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/*------------------------------------------------------------------
* strpbrk_s.c
* 
* November 2008, Bo Berry
* 
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* */

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* 
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* ---------------------------------------------------------------
*/

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/*---------------------------------------------------------------
 * strislowercase_s.c
 * *
 * February 2005, Bo Berry
 * *
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 * ---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strislowercase_s.c
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
 * mem_primitives_lib.c - Unguarded Memory Copy Routines
 * *
 * February 2005, Bo Berry
 * *
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*/opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/mem_primitives_lib.c
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/*------------------------------------------------------------------
* strncpy_s.c
* 
* October 2008, Bo Berry
* 
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* 
* NOTE: This function should ONLY be used when the intention is to
*       TRUNCATE the data in source into destination. If truncation
*       is not desired strcpy_s should be used.
*------------------------------------------------------------------
*/

Found in path(s):
*/opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncpy_s.c
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/*------------------------------------------------------------------
* strljustify_s.c
* 
* November 2008, Bo Berry
* 
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*------------------------------------------------------------------
*/

Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* safe_mem_lib.h -- Safe C Library Memory APIs
* 
* October 2008, Bo Berry
* */
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*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-targz/safeC/include/safe_mem_lib.h
No license file was found, but licenses were detected in source scan.

#---------------------------------------------------------------
# infra/safeC/Jamfile
#
# May-2013, Subramanian Karunanithi
#
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#---------------------------------------------------------------
SubDir TOP infra safeC ;

IosComponentSrc infra safeC ;
SubInclude TOP infra safeC test ;

#---------------------------------------------------------------
# End of infra/safeC/Jamfile
#---------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-targz/safeC/Jamfile
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/*-----------------------------------------------*/
* strprefix_s.c
* 
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* 
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*-----------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strprefix_s.c
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/*-----------------------------------------------*/
* strcat_s.c
* 
* October 2008, Bo Berry
* 
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*-----------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcat_s.c
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
* strncat_s.c
* 
* October 2008, Bo Berry
* 
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* 
* NOTE: This function should ONLY be used when the intention is to
*       TRUNCATE the data in source into destination. If truncation
*       is not desired strcat_s should be used.
*-----------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncat_s.c
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
* strispassword_s.c
* 

* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strispassword_s.c
No license file was found, but licenses were detected in source scan.

#------------------------------------------------------------------
# Jamfile - specify NG rules to build this component.
#
# May 2013, Subramanian Karunanithi
#
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#----------------------------------------------------------------------------------
#
SearchSource $(TOP)/infra/safeC/src/safe_string ;

# Disable BOSC (Built-in Object Size Checking)
local BOSC_HEADERS = ;

IosDLLlibsafec
 : abort_handler_s.c
dcdi_handler_s.c
ignore_handler_s.c
mem_primitives_lib.c
memcmp16_s.c
memcmp32_s.c
memcmp_s.c
memcpy16_s.c
memcpy32_s.c
memcpy_s.c
memmove16_s.c
memmove32_s.c
memmove_s.c
memset16_s.c
memset32_s.c
memset_s.c
safe_logger.c
safe_mem_constraint.c
safe_package_info.c
safe_str_constraint.c
set_constraint_handler_s.c
smemzero16_s.c
smemzero32_s.c
smemzero_s.c
strcasestrcmp_s.c
strcasestr_s.c
strcat_s.c
strcmpl_s.c
strcmplfld_s.c
strcpys.c
strcpyl fld_s.c
strcpylfldin_s.c
strcpylfldout_s.c
strcspsn_s.c
strfirstchar_s.c
strfirstdiff_s.c
strfirstsame_s.c
strisalphanumeric_s.c
strisascii_s.c
strisdigit_s.c
strishex_s.c
strislowercase_s.c
strismixedcase_s.c
strispasword_s.c
strisuppercase_s.c
strlastchar_s.c
strlastdiff_s.c
strlastsame_s.c
strjustify_s.c
strncasestrmp_s.c
strncat_s.c
strnccmp_s.c
strncpy_s.c
strnlen_s.c
strpbrk_s.c
strprefix_s.c
strremoves_s.c
strspn_s.c
strstr_s.c
strtok_s.c
strtolowercase_s.c
strtouppercase_s.c
strzero_s.c

: NO_EXTRA_LIBS

:
/*---------------------------------------------*/
/* safe_types.h -- types include for portability*/
/* */
/* March 2007, Bo Berry */
/* */
/* Copyright (c) 2007-2015, 2018 by Cisco Systems, Inc. */
/* */
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/* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE*/
/* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.*/
/*---------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/include/safe_types.h
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/src/module.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/BUILD
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/header-exports.yaml
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/src/src.mk
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/Makefile.binos
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/makefile
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-gz/safeC/Makefile.calvados
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strlastchar_s.c
 *
* November 2008, Bo Berry
 *
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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strlastchar_s.c

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

/*------------------------------------------------------------------
* safe_lib.h -- library include for portability
 *
* February 2009, Bo Berry
 *
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 *
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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_lib.h

No license file was found, but licenses were detected in source scan.
* strncasecmp_s.c
*
* November 2016, Thomas Greenslade
*
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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strncasecmp_s.c
No license file was found, but licenses were detected in source scan.

/*--------------------------------------------------------------------------------
* mem_primitives_lib.h - Unguarded Memory Copy Routines
*
* October 2005, Bo Berry
*
* Copyright (c) 2005-2010, 2013, 2018 by Cisco Systems, Inc.
*
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*--------------------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/mem_primitives_lib.h
No license file was found, but licenses were detected in source scan.

!--------------------------------------------------------------
! Test script for safe C string APIs
!
! Sept 8, 2009 John Qian, Bo Berry
Testing the safe C string APIs

% Cflow
! Enter the files/subsystems in the unit under test.
! These files will be instrumented for Cflow and MIF(if MIF is
! available in your view). GDB flag -g is used during compilation.
cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
cflow_list=strcpy.o

% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified
! then a default MIF configuration is used.

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

% DTD headers
! DTD is not available with SESUT yet.
#include "master.h"
#include &lt;types.h>
#include "./testtools/testtools.h"
#include "./testtools/testtools_private.h"

% DTD functions
! DTD is not available with SESUT yet.
! List functions to be tested for robustness
!
mif_enable
mif_disable
mif_clear
mif_lock

% env
! Use this section to list object modules and libraries that are not
! part of the standard build but are used by the tests defined in this
! file. The text following "link:" is inserted into the final link step.
! link:  xyz.o abc.o libmyunittest.a -llibmytest -ltestlib
!
! Use this section to add any special 'CFLAGS' needed to compile sesut
! generated test file
!cflags: -I../http/http_core/include
!cflags: -I../http/http_core/server
!cflags: -I../ios_http_core/config -I../http_core/lib
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE

! You can specify functions to be executed before and after the test.
! pretest is executed before executing the unit test and the posttest is
! executed after executing the unit test. These are executed once regardless
! of the repeat count. The prototypes of these functions are expected to be:
!     void <pretest>(void);
!     void <posttest>(void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!pretest:config_my_feature
!posttest:validate_results

! If want want your pretest/posttest functions to receive same
! parameters as the test then specify the functions as:
!pretest_withparams:config_my_feature
!posttest_withparams:validate_results
! The prototypes for these functions would be:
!     void <pretest_withparams>(<types of parameters>)
!     void <posttest_withparams>(<types of parameters>)
! Parameters are specified using "parameter:" keyword in % model" section.
! If both {pre|post}test and {pre|post}test_withparams are specified:
!     pretest is executed before pretest_withparams.
!     posttest is executed after posttest_withparams.

! You can specify a initializer/finalizer function to be executed
! before/after the test
! These functions are executed before/after 'pretest'/posttest' function.
! initializer function can contain code to initialize global variables used
! in your test
! finalizer function can contain code for clean up and freeing memory used
! by test
!
! Both initializer and finalizer options are useful if you use SESUT loader
! to do unit testing and required if your test allocates heap memory.
! The prototypes of these functions are expected to be:
!     void <initializer>(void);
!     void <finalizer> (void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!initializer:my_init
!finalizer:my_finit

% model prolog
! This code will be copied unchanged to the start of the generated .c file
/* global var declaration */
typedef void (*TestFuncs) (void);
static TestFuncs testFuncs[MaxTestCases];

static void test_memcmp_s (void)
{
    errno_t rc;

    int LEN=128;
    int  ind;
    int32_t  std_ind;
    uint32_t len;

    uint8_t  mem1[LEN];
    uint8_t  mem2[LEN];

    printf("\nmemcmp_s TESTING\n");

    rc = memcmp_s(NULL, LEN, mem2, LEN, &ind);
    if (rc != ESNULLP) {
        debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                 "\nmemcmp_s TESTING\n");
    }
}
rc = memcmp_s(mem1, LEN, NULL, LEN, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, LEN, mem2, LEN, NULL);
if (rc != ESNULLP) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, 0, mem2, LEN, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, LEN, mem2, 0, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}

rc = memcmp_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
                  __FUNCTION__, __LINE__, ind, rc);
}
len = 1;

memset(mem1, 55, len);
memset(mem2, 55, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("\%s \%u \ Ind=%d  Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
if (ind != 0) {
    debug_printf("\%s \%u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("\%s \%u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
/*-----------------------------------------------*/

len = 2;

memset(mem1, 55, LEN);
memset(mem2, 55, LEN);

rc = memcmp_s(&mem1[1], len, &mem2[1], len, &ind);
if (rc != EOK) {
    debug_printf("\%s \%u \ Ind=%d  Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
if (ind != 0) {
    debug_printf("\%s \%u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("\%s \%u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                 __FUNCTION__, __LINE__, ind, rc);
}

if (ind != 0) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                 __FUNCTION__, __LINE__, ind, rc);
}

std_ind = memcmp(mem1, mem2, len);
if (ind != std_ind) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                 __FUNCTION__, __LINE__, ind, rc);
}

len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);
memset(&mem2[(len/2)], 35, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u Ind=%d Error rc=%u \n",
                 __FUNCTION__, __LINE__, ind, rc);
}

if (ind < 1) {
    debug_printf("%s %u Ind=%d rc=%u \n",
                 __FUNCTION__, __LINE__, ind, rc);
}
len = 32;

memset(mem1, 55, len);
memset(mem2, 55, len);
memset(&mem2[(len/2)], 65, len);

rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
if (ind > -1) {
    debug_printf("%s %u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__,  ind, rc);
}

/*--------------------------------------------------*/
len = 3;

memset(mem1, 55, len);
memset(mem2, 55, len);
rc = memcmp_s(mem1, len, mem2, len, &ind);
if (rc != EOK) {
    debug_printf("%s %u  Ind=%d  Error rc=%u \n",
        __FUNCTION__, __LINE__, ind, rc);
}
if (ind != 0) {
    debug_printf("%s %u  Ind=%d  rc=%u \n",
        __FUNCTION__, __LINE__,  ind, rc);
}

/*-----------------------------------------------*/

printf("\n\nDone \n");
}

static void test_memcpy_s(void)
{
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    rsize_t len;
uint8_t mem1[LEN+2];
uint8_t mem2[LEN+2];

/*-----------------------------------------------*/
printf("\nmemcpy_s TESTING\n");
rc = memcpy_s(NULL, LEN, mem2, LEN);
if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
/*-----------------------------------------------*/
rc = memcpy_s(mem1, 0, mem2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
/*-----------------------------------------------*/
rc = memcpy_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
/*-----------------------------------------------*/
rc = memcpy_s(mem1, LEN, NULL, LEN);
if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
/*-----------------------------------------------*/
rc = memcpy_s(mem1, 10, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
/*-----------------------------------------------*/
rc = memcpy_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != mem2[i]) {
            printf("%d - %d m1=%d  m2=%d \n", __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[i] != 33) {
        printf("%d - %d m1=%d  m2=%d \n", __LINE__, len, mem1[len], mem2[len]);
    }
}

/*--------------------------------------------------*/

for (i=0; i<LEN+1; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, (len+1));
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n", __LINE__, i, mem1[i], mem2[i]);
        }
    }
}
if (mem1[i] != 33) {
    printf("%d - %d m1=%d  m2=%d \n", __LINE__, len, mem1[len], mem2[len]);
}

/*------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN/2;
rc = memcpy_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n", __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] != 33) {
        printf("%d - %d m1=%d  m2=%d \n", __LINE__, len, mem1[len], mem2[len]);
    }
}

/*------------------------------------------------*/
for (i=0; i<LEN+2; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

len = LEN;
rc = memcpy_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d  m2=%d \n",
                __LINE__, i, mem1[i], mem2[i]);
    }
}

if (mem1[len] != 33) {
    printf("%d - %d m1=%d  m2=%d \n",
            __LINE__, len, mem1[len], mem2[len]);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }
len = LEN;
rc = memcpy_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
} else {
    /* verify mem1 was zeroed */
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] == 0) {
        printf("%d - %d m1=%d  m2=%d \n",
                __LINE__, i, mem1[i], mem2[i]);
    }
    /*-------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
/* same ptr - no move */
rc = memcpy_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[0], len, &mem1[10], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
    if (mem1[len] == 0) {
        printf("%d - %d m1=%d  m2=%d \n",
                __LINE__, i, mem1[i], mem2[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[10], len, &mem1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
} else {
    for (i=10; i<len+10; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
}

/*---------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 55; }
for (i=0; i<LEN; i++) { mem2[i] = 65; }

/* overlap */
len = 100;
rc = memcpy_s(&mem1[10], len, &mem1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
} else {
    for (i=10; i<len+10; i++) {
        if (mem1[i] != 0) {
            printf("%d - %d m1=%d  m2=%d \n",
                    __LINE__, i, mem1[i], mem2[i]);
        }
    }
}
printf("%d - %d m1=%d  m2=%d \n", __LINE__, i, mem1[i], mem2[i]);
}
}
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 35; }
for (i=0; i<LEN; i++) { mem2[i] = 55; }

len = 5;
rc = memcpy_s(mem1, len, mem2, len);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<len; i++) {
        if (mem1[i] != 55) {
            printf("%d - %d m1=%d\n", __LINE__, i, mem1[i]);
        }
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 35; }
for (i=0; i<LEN; i++) { mem2[i] = 55; }

rc = memcpy_s(mem1, LEN, mem2, LEN/2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
} else {
    for (i=0; i<LEN/2; i++) {
        if (mem1[i] != 55) {
            printf("%d - %d m1=%d  m2=%d \n", __LINE__, i, mem1[i], mem2[i]);
        }
    }
}

/*--------------------------------------------------*/
/*-----------------------------------------------*/

    printf("\n\nDone \n");
    return;
}

static void test_memmove_s(void)
{
    errno_t rc;

    int LEN=1024;
    uint32_t i;
    uint32_t len;

    uint8_t  mem1[LEN];
    uint8_t  mem2[LEN];

    /*-----------------------------------------------*/

        printf("\nmemmove_s TESTING\n");

        rc = memmove_s(NULL, LEN, mem2, LEN);
        if (rc != ENSULLP) {
            debug_printf("%s %u   Error rc=%u \n",
                         __FUNCTION__, __LINE__, rc);
        }

    /*-----------------------------------------------*/

        rc = memmove_s(mem1, 0, mem2, LEN);
        if (rc != ESZEROL) {
            debug_printf("%s %u   Error rc=%u \n",
                         __FUNCTION__, __LINE__, rc);
        }

    /*-----------------------------------------------*/

        rc = memmove_s(mem1, RSIZE_MAX_MEM+1, mem2, LEN);
        if (rc != ESLEMAX) {
            debug_printf("%s %u   Error rc=%u \n",
                         __FUNCTION__, __LINE__, rc);
        }

    /*-----------------------------------------------*/

        rc = memmove_s(mem1, LEN, NULL, LEN);
        if (rc != ENSULLP) {
            debug_printf("%s %u   Error rc=%u \n",
                         __FUNCTION__, __LINE__, rc);
        }

/*-----------------------------------------------*/
rc = memmove_s(mem1, 10, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = memmove_s(mem1, LEN, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }
/* a valid move */
len = LEN;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (mem1[i] != mem2[i]) {
        printf("%d m1=%d  m2=%d \n", i, mem1[i], mem2[i]);
    }
}

/* length error */
len = LEN/2;
rc = memmove_s(mem1, len, mem2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n",
                __LINE__, i, mem1[i]);
    }
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n",
                __LINE__, i, mem1[i]);
    }
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* invalid length - zero dest */
len = LEN;
rc = memmove_s(mem1, len, mem2, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
}
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
for (i=0; i<LEN; i++) { mem2[i] = 44; }

/* same ptr - no move */
rc = memmove_s(mem1, LEN, mem1, LEN);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 25; }
for (i=10; i<LEN-10; i++) { mem1[i] = 35; }

/* overlap move */
len = 20;
rc = memmove_s(&mem1[0], len, &mem1[10], len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (mem1[i] != 35) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}
/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 25; }
for (i=10; i<LEN-10; i++) { mem1[i] = 35; }

/* overlap move */
len = 20;
rc = memmove_s(&mem1[10], len, &mem1[0], len);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<LEN; i++) { mem2[i] = 25; }
for (i=10; i<LEN-10; i++) { mem2[i] = 35; }

for (i=0; i<10; i++) {
    if (mem1[i] != 25) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_memzero_s(void)
{
    errno_t rc;

    int LEN = 512;
    uint32_t i;
    uint32_t len;
    uint8_t mem1[LEN];

    /*---------------------------------------------*/
    printf("\nmemzero_s TESTING\n");

    rc = memzero_s(NULL, LEN);
    if (rc != ENULLP) {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = memzero_s(mem1, 0);
    if (rc != ESZEROL) {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/
rc = memzero_s(mem1, RSIZE_MAX_MEM+1);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 1;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = 2;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }
len = 3;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", 
                __LINE__, i, mem1[i]);
    }
}

/*--------------------------------------------------*/
for (i=0; i<LEN; i++) { mem1[i] = 33; }

len = LEN;
rc = memzero_s(mem1, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc);
}

/* verify mem1 was zeroed */
for (i=0; i<len; i++) {
    if (mem1[i] != 0) {
        printf("%d - %d m1=%d \n", 
                __LINE__, i, mem1[i] );
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strcasecmp_s(void)
{
    int LEN=128;

    errno_t rc;

    int ind;
int std_ind;

char   str1[LEN];
char   str2[LEN];

/*-----------------------------------------------*/
printf("\
ustrcasecmp_s TESTING\n");

rc = strcasecmp_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
rc = strcasecmp_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
rc = strcasecmp_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
rc = strcasecmp_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
rc = strcasecmp_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
str1[0] = \0;
str2[0] = \0;

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, 4, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "KEEP IT SIMPLE");
strcpy (str2, "keep it simple");

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");
rc = strcasecmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
std_ind = strcasecmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

strcpy (str1, "keep it simple");
rc = strcasecmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str1);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "KEEP it simplified");
strcpy (str2, "keep it simple");
rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str2);
if (std_ind <= 0) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "KEEP 1234567890");
strcpy (str2, "keep it simple");
rc = strcasecmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind >= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__,  ind, rc);
}

/* be sure the results are the same as strcasecmp */
std_ind = strcasecmp(str1, str2);
if (std_ind != ind) {
    printf(”%s %u  ind=%d  std_ind=%d  rc=%d \n”,
            __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/

printf(”\n\nDone \n”);
return ;
}

static void test_strcasestr_s(void)
{
    int LEN=128;
    //int SHORT_LEN=5;

    errno_t rc;

    char *sub;
    // char *std_sub;

    rsize_t len1;
    rsize_t len2;

    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf(”\nstrcasestr_s TESTING\n”);

    rc = strcasestr_s(NULL, LEN, str2, LEN, &sub);
    if (rc != ESNULLP) {
        printf(”%s %u  Error rc=%d \n”,
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/

    rc = strcasestr_s(str1, LEN, NULL, LEN, &sub);
    if (rc != ESNULLP) {
        printf(”%s %u  Error rc=%d \n”,
                __FUNCTION__, __LINE__, rc);
    }
}
/*---------------------------------------------*/
rc = strcasestr_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strcasestr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strcasestr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strcasestr_s(str1, LEN, str2, 0, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
rc = strcasestr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
*str1 = '\0';
*str2 = '\0';
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
   std_sub = strcasestr(str1, str2);
   if (sub != std_sub) {
       printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
   }
*/
/*--------------------------------------------------*/

strncpy(str1, "key");
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

if (sub != str1) {
    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
   std_sub = strcasestr(str1, str2);
   if (sub != std_sub) {
       printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
   }
*/
/*--------------------------------------------------*/

strcpy(str1, "keep it all together");
strcpy(str2, "\0");

/* str2 being empty, must return str1 */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {

    printf("%s %u Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);

}
printf("%s %u  Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
   std_sub = strcasestr(str1, str2);
   if (sub != std_sub) {
       printf("%s %u  Error rc=%u \n",
             __FUNCTION__, __LINE__, rc);
   }
*/
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "kee");

/* substring at beginning */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
             __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[0]) {
    printf("%s %u  Error rc=%d \n",
             __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep it");
/* substring in the middle - left */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
             __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%d \n",
             __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "keep it all together");
strcpy(str2, "ethe");

/* substring in the middle - right */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[15]) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/* substring at the end */
rc = strcasestr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[18]) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*    std_sub = strcasestr(str1, str2);
    if (sub != std_sub) {
        printf("%s %u  Error rc=%u \n",
               __FUNCTION__, __LINE__, rc);
    }
*/
/*-----------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strcasestr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "1234");
len1 = strlen(str1);

/* str1 is unterminated */
rc = strcasestr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {

printf("%s %u  Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "IT ALL");

/* str2 is unterminated */
rc = strcasestr_s(str1, LEN, str2, 2, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strcasestr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
    printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/* compare to legacy */
/*
    std_sub = strcasestr(str1, str2);
    if (sub != std_sub) {
        printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
*/
/*
--------------------------------------------------*/
static void test_strcat_s(void)
{
    int LEN=128;

    errno_t rc;
    int32_t  ind;
    char   str1[LEN];
    char   str2[LEN];

    /*-----------------------------------------------*/
    printf("\nstrcat_s TESTING\n");
    rc = strcat_s(NULL, LEN, str2);
    if (rc != ENSNULLP) {
        debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/

    rc = strcat_s(str1, LEN, NULL);
    if (rc != ENSNULLP) {
        debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/

    rc = strcat_s(str1, 0, str2);
    if (rc != ESZEROL) {
        debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }
    /*-----------------------------------------------*/

    rc = strcat_s(str1, (RSIZE_MAX_STR+1), str2);
    if (rc != ESLEMAX) {
        debug_printf("%s %u Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc);
    }
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 1, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);
}

strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 2, str2);
if (rc != ESUNTERM) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);
}

strcpy(&str1[0], "aaaaaaaaaa");
strcpy(&str2[0], "keep it simple");

rc = strcat_s(str1, 50, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u  Expected null \n", __FUNCTION__, __LINE__);
}
str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '\0') {
    debugPrintf("%s %u  Expected null \n", __FUNCTION__, __LINE__);
}

/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debugPrintf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

str1[0] = '\0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 20, str2);
if (rc != EOK) {
    debugPrintf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/*-----------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debugPrintf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/

str1[0] = '\0';
str2[0] = '\0';

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debugPrintf("%s %u  Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

str1[0] = '0';
strcpy(str2, "keep it simple");

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                  __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/

strcpy(str1, "qqweqq");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "qqweqqkeep it simple");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                  __FUNCTION__, __LINE__, str1);
}

/*--------------------------------------------------*/

strcpy(str1, "1234");
strcpy(str2, "keep it simple");

rc = strcat_s(str1, 12, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                  __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "1234" preferring to keep it simple.
strcpy(str2, "12345678901234567890" preferring to keep it simple.
rc = strcat_s(str1, 52, str2);        // Preparing to keep it simple.
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
ind = strcmp(str1, "1234keep it simple");
if (ind != 0) {
    debug_printf("%s %u Error -%s- \n", __FUNCTION__, __LINE__, str1);
}
/*--------------------------------------------------*/
strcpy(str1, "12345678901234567890" preferring to keep it simple.
rc = strcat_s(str1, 21, &str1[5]);  // Preparing to keep it simple.
if (rc != ESOVRLP) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str2, "123" preferring to keep it simple.
strcpy(str1, "keep it simple");
rc = strcat_s(str2, 31, &str1[5]); // Preparing to keep it simple.
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
ind = strcmp(str2, "123keep it simple");
if (ind != 0) {
    debug_printf("%s %u Error -%s- \n", __FUNCTION__, __LINE__, str1);
}
/*--------------------------------------------------*/
strcpy(str2, "1234" preferring to keep it simple.
strcpy(str1, "keep it simple");
rc = strcat_s(str2, 31, str1);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
               __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
printf("\n\nDone \n");
return ;
}

static void test_strcmp_s(void)
{
    int LEN=128;
    //int SHORT_LEN=5;

    // char temp_char;
    errno_t rc;

    int ind;
    int std_ind;

    char   str1[LEN];
    char   str2[LEN];

    /*---------------------------------------------*/
    printf("\nstrcmp_s TESTING\n");

    rc = strcmp_s(NULL, LEN, str2, &ind);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", 
               __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/

    rc = strcmp_s(str1, LEN, NULL, &ind);
    if (rc != ENULLP) {
        printf("%s %u  Error rc=%d \n", 
               __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/

    rc = strcmp_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strcmp_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strcmp_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d 
", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d 
", __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d 
", __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
/*   K - k ==  -32  */
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
/*   K - k == -32 */
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
/*   p - P ==  32 */
strcpy (str1, "keep it simple");
strcpy (str2, "keeP it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind == 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

strcpy (str1, "keep it simple");
rc = strcmp_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str1);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, std_ind, rc);
}

strcpy (str1, "keep it simplified");
strcpy (str2, "keep it simple");
rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind <= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, std_ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simplified");

rc = strcmp_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind >= 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
/* be sure the results are the same as strcmp */
std_ind = strcmp(str1, str2);
if (ind != std_ind) {
    printf("%s %u  ind=%d  std_ind=%d  rc=%d \n",
            __FUNCTION__, __LINE__, ind, std_ind, rc);
}
/*--------------------------------------------------*/
printf("\n\nDone \n");
return ;
}

static void test_strcmpfld_s(void)
{    //int MAX=128;
    int LEN=128;

    errno_t rc;

    uint32_t i;
    rsize_t len;
    int ind;
char str1[LEN];
char str2[LEN];

/*------------------------------------------*/
printf("unstrcmpfld_s TESTING\n");
rc = strcmpfld_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
len = 5;
rc = strcmpfld_s(str1, len, NULL, &ind);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
len = 5;
rc = strcmpfld_s(str1, len, str2, NULL);
if (rc != ESNULLP) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
rc = strcmpfld_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------*/
rc = strcmpfld_s(str1, (RSIZE_MAX_STR+1), str2, &ind);
if (rc != ESLEMAX) {
    debug_printf("%s %u Error rc=%u \n", 
        __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = 1;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                   __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 2;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                   __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 3;
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
```c
debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u   diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u   diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str1[10] = '\0';
strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[10] = '\0';

len = strlen(str1);
rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
```

debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
   __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
}
}
/*-----------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[0] = '0';
str1[15] = '
';

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '0';
str2[15] = '
';

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
       __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
           __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
/*-----------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[3] = '
'; /* now place a null */

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[3] = '
';

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
       __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
           __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);
str1[1] = \0; /* now place nulls */
str1[20] = \0;

strcpy(str2, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[1] = \0;
str2[20] = \0;

rc = strcmpfld_s(str1, len, str2, &ind);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  ind=%d  rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], ind, rc);
    }
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
return ;

static void test_strcpy_s(void)
{
    //int MAX=128;
    int LEN=128;

    errno_t rc;

    int32_t ind;
    char str1[LEN];
    char str2[LEN];
printf("\nstpcpy_s TESTING\n");

rc = strcpy_s(NULL, LEN, str2);
if (rc != ESNULLP) {
    debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
rc = strcpy_s(str1, 5, NULL);
if (rc != ESNULLP) {
    debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
#endif
#ifdefined SAFE_LIB_STR_NULL_SLACK
for (i=0; i<5; i++) {
    if (str1[i] != '\0') {
        debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
}
#else
if (str1[0] != '\0') {
    debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
#endif

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESZEROL) {
    debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

rc = strcpy_s(str1, (RSIZE_MAX_STR+1), str2);
if (rc != ESLEMAX) {
    debug_printf("\n%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';

rc = strcpy_s(str1, LEN/2, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

#ifdef SAFE_LIB_STR_NULL_SLACK
    for (i=0; i<LEN/2; i++) {
        if (str1[i] != '\0') {
            debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
        }
    }
#else
    if (str1[0] != '\0') {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
#endif

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

rc = strcpy_s(str1, LEN, str1);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

#ifdef SAFE_LIB_STR_NULL_SLACK
    for (i=0; i<LEN; i++) {
        if (str1[i] != '\0') {
            debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
        }
    }
#else
    if (str1[0] != '\0') {
        debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
#endif
strcpy(&str1[0], "keep it simple");

rc = strcpy_s(&str1[0], LEN, &str1[5]);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u\n",
                 __FUNCTION__, __LINE__,  rc );
}

#ifdef SAFE_LIB_STR_NULL_SLACK
    for (i=0; i<LEN; i++) {
        if (str1[i] != '\0') {
            debug_printf("%s %u   Error rc=%u\n",
                         __FUNCTION__, __LINE__,  rc );
        }
    }
#else
    if (str1[0] != '\0') {
        debug_printf("%s %u   Error rc=%u\n",
                         __FUNCTION__, __LINE__,  rc );
    }
#endif

strcpy(&str1[0], "keep it simple");
str2[0] = '\0';
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u\n",
                 __FUNCTION__, __LINE__,  rc );
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u\n",
                 __FUNCTION__, __LINE__, str1, rc );
}

strcpy(&str2[0], "keep it simple");
rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
}

/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
            __FUNCTION__, __LINE__, str1, rc );
}

/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strcpy_s(str1, LEN, str2);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
}

/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
            __FUNCTION__, __LINE__, str1, rc );
}

/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strcpy_s(str1, 1, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__, rc );
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n", 
            __FUNCTION__, __LINE__, str1, rc );
}
/*---------------------------------------------*/

strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");

rc = strcpy_s(str1, 2, str2);
if (rc != ESNOSPC) {
    debug_printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s-  Error rc=%u \n",
            __FUNCTION__, __LINE__,  str1, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "it");
rc = strcpy_s(str1, 3, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u \n",
            __FUNCTION__, __LINE__,  str1, rc);
}

/*--------------------------------------------------*/

strcpy(str1, "qq12345weqeqeqeq");
strcpy(str2, "it");
rc = strcpy_s(str1, 10, str2);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);

/*---------------------------------------------*/
if (ind != 0) {
    debug_printf("%s %u -%s-  Error rc=%u\n",
                    __FUNCTION__, __LINE__,  str1, rc);
}

for (i=0; i<10; i++) {
    printf("str1[%i] = %d \n", i, str1[i]);
}

/*--------------------------------------------------*/

printf("\n\nDone\n");
return;
}

static void test_strcpyfld_s(void)
{
    int LEN=128;

    errno_t rc;
    uint32_t i;
    rsize_t len = 5;
    rsize_t slen = 5;

    char   str1[LEN];
    char   str2[LEN];

    printf("strcpyfld_s TESTING\n");
    printf("\n\nstrcpyfld_s TESTING\n");

    /*-------------------------------------*/
    rc = strcpyfld_s(NULL, LEN, str2, slen);
    if (rc != ESNULLP) {
        debug_printf("%s %u -%s-  Error rc=%u\n",
                        __FUNCTION__, __LINE__,  rc);
    }
    /*-------------------------------------*/

    strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

    rc = strcpyfld_s(str1, len, NULL, slen);
    if (rc != ESNULLP) {
        debug_printf("%s %u -%s-  Error rc=%u\n",
                        __FUNCTION__, __LINE__,  rc);
    }
    for (i=0; i<len; i++) {
        /*-------------------------------------*/
        rc = strcpyfld_s(str1, len, NULL, slen);
        if (rc != ESNULLP) {
            debug_printf("%s %u -%s-  Error rc=%u\n",
                            __FUNCTION__, __LINE__,  rc);
        }
    }
}
if (str1[i] != '0') {
    debug_printf("\%s \%u \ Error rc=\%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
slen = 5;
rc = strcpyfld_s(str1, 0, str2, slen);
if (rc != ESZEROL) {
    debug_printf("\%s \%u \ Error rc=\%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
slen = 5;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("\%s \%u \ Error rc=\%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
slen = 0;
rc = strcpyfld_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("\%s \%u \ Error rc=\%u \n", 
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 5;
slen = len+1;
rc = strcpyfld_s(str1, (RSIZE_MAX_STR+1), str2, slen);
if (rc != ESLEMAX) {
    debug_printf("\%s \%u \ Error rc=\%u \n", 
        __FUNCTION__, __LINE__, rc);
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 1;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 1;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 2;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 2;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = 3;

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");
slen = 2;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

slen = 3;
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
len = strlen(str1);

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

slen = strlen(str2);
str2[0] = '\0';

rc = strcpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
                        __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

len = strlen(str1) + 2;
str1[20] = '\0';

strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

slen = strlen(str1);
str2[0] = '\0';
str2[20] = \'0\';

rc = strncpyfld_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d   rc=%u \n",
            __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
/*--------------------------------------------------*/
printf("\n\nDone \n");
return;
}

static void test_strcpyfldin_s(void)
{
int LEN=128;

erro_t rc;
uint32_t i;
rsize_t len;
rsize_t slen;

char str1[LEN];
char str2[LEN];

/*-----------------------------------------------*/
printf("\n\nstrncpyfldin_s TESTING\n");

rc = strncpyfldin_s(NULL, LEN, str2, LEN);
if (rc != E_NULLP) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = 5;
rc = strncpyfldin_s(str1, len, NULL, LEN);
/*-----------------------------------------------*/
if (rc != ESNULP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc );
}

for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__,  rc );
    }
}

/*--------------------------------------------------*/
rc = strcpyfldin_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
rc = strcpyfldin_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc );
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = strlen(str1);
slen = strlen(str2);
rc = strcpyfldin_s(str1, len, str2, slen);
if (rc == EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc );
}

for (i=0; i<len; i++) {
    if (str1[i] != 0) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                          __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = 2;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = 3;
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {

debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

/* same string in dest and src */
len = LEN;
rc = strcpyfldin_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*------------------------------------------------*/
strcpy(str1, "keep it simple for best results ");
len = strlen(str1);

/* overlap */
rc = strcpyfldin_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
strcpy(str1, "keep it simple for best results ");
len = 20;

/* overlap */
rc = strcpyfldin_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=10; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "keep it simple");
len = strlen(str1);
strcpy(str2, "KEEP IT SIMPLE PLEASE");
rc = strcpyfldin_s(str1, len, str2, len);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "always keep it simple");
len = strlen(str1);
strcpy(str2, "keep it simple");
slen = strlen(str2);
rc = strcpyfldin_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
      debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

printf("\n\nDone \n");
return ;
}

static void test_strcpyfldout_s(void)
{
  int LEN=128;
  errno_t rc;
  uint32_t i;
  rsize_t len = 5;
  rsize_t slen = 0;
  char str1[LEN];
  char str2[LEN];

  /*----------------------------------------*/
  printf("strcpyfldout_s TESTING\n");
  rc = strcpyfldout_s(NULL, LEN, str2, slen);
  if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }

  /*----------------------------------------*/
  rc = strcpyfldout_s(str1, len, NULL, len);
  if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }
  /*----------------------------------------*/
  rc = strcpyfldout_s(str1, len, NULL, len);
  if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }
}
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
    }
}

/*------------------------------------------------*/
rc = strcpyfldout_s(str1, 0, str2, LEN);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
rc = strcpyfldout_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
len = 5;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
len = 5;
slen = 6;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
                    __FUNCTION__, __LINE__, rc);
}
/*------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");

len = 1;
slen = 1;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/* str1 becomes null */
for (i=0; i<len; i++) {
    if (str1[i] != '0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = 2;
slen = 2;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "01234567890123456789");
len = 3;
slen = 3;
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
```c
__FUNCTION__, __LINE__, rc);
}
for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d s2[%d]=%d rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");

/* same string in dest and src */
len = LEN;
rc = strcpyfldout_s(str1, len, str1, len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d s2[%d]=%d rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple for best results");
len = strlen(str1);

/* overlap */
rc = strcpyfldout_s(&str1[0], len, &str1[5], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
                     __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d s2[%d]=%d rc=%u \n",
                     __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
```
strcpy(str1, "keep it simple for best results");
len = 20;

/* overlap */
rc = strcpyfldout_s(&str1[10], len, &str1[0], len);
if (rc != ESOVRLP) {
    debug_printf("%s %u  Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}
for (i=10; i<len; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                       __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "keep it simple");
len = strlen(str1);
strcpy(str2, "aaaaaaaaaaaaaaaaa");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
                   __FUNCTION__, __LINE__, rc);
}
for (i=0; i<len-1; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u  diff s1[%d]=%d  s2[%d]=%d  rc=%u \n",
                       __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}

strcpy(str1, "always keep it simple");
len = strlen(str1);
strcpy(str2, "keep it simple");
slen = strlen(str2);
rc = strcpyfldout_s(str1, len, str2, slen);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

for (i=0; i<slen; i++) {
    if (str1[i] != str2[i]) {
        debug_printf("%s %u diff s1[%d]=%d s2[%d]=%d rc=%u \n", __FUNCTION__, __LINE__, i, str1[i], i, str2[i], rc);
    }
}
/*-----------------------------------------------*/
/*-----------------------------------------------*/

printf("\n\nDone \n");
return;
}

static void test_strcspn_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t count;
    int std_count;

    // rsize_t len;
    char str1[LEN];
    char str2[LEN];

    /*-----------------------------------------------*/
    printf("\n\nstrcspn_s TESTING\n");
    rc = strcspn_s(NULL, LEN, str2, LEN, &count);
    if (rc != ENULLP) {
        printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
    }
    /*-----------------------------------------------*/

    rc = strcspn_s(str1, LEN, NULL, LEN, &count);
    /*-----------------------------------------------*/

    rc = strcspn_s(str1, LEN, NULL, LEN, &count);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcspn_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcspn_s(str1, 0, str2, LEN, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcspn_s(str1, LEN, str2, 0, &count);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strcspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
str1[0] = '0';
str2[0] = '0';

rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

if (count != 0) {
    printf("%s %u  Error  count=%d rc=%d \n",
            __FUNCTION__, __LINE__, count, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, 5, str2, LEN, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP");
rc = strcspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {

*/-------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "keep");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {

*/-------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "keep");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
printf("%s %u Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
        __FUNCTION__, __LINE__, count, std_count, rc);
}
/*-------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "notincluded");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
        __FUNCTION__, __LINE__, count, std_count, rc);
}
/*-------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "1234567890");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
        __FUNCTION__, __LINE__, count, std_count, rc);
}
/*-------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "notincluded");
rc = strcspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
std_count = strcspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
        __FUNCTION__, __LINE__, count, std_count, rc);
}
/*-------------------------------*/
printf("\n\nDone \n");
return;
}

static void test_strfirstchar_s(void)
{
    int LEN=128;

erno_t rc;
rsze_t len;

cchar *first;
cchar str1[LEN];

/*--------------------------------------------------*/
printf("strfirstchar_s TESTING\n");

rc = strfirstchar_s(NULL, LEN, 'a', &first);
if (rc != ESNULLP) {
    printf("\%s \%u  Error  str1=%p  first=%p  rc=%d \n", 
            __FUNCTION__, __LINE__, str1, first, rc);
}
/*--------------------------------------------------*/
rc = strfirstchar_s(str1, LEN, 'a', NULL);
if (rc != ESNULLP) {
    printf("\%s \%u  Error  str1=%p  first=%p  rc=%d \n", 
            __FUNCTION__, __LINE__, str1, first, rc);
}
/*--------------------------------------------------*/
rc = strfirstchar_s(str1, 0, 'a', &first);
if (rc != ESZEROL) {
    printf("\%s \%u  Error  str1=%p  first=%p  rc=%d \n", 
            __FUNCTION__, __LINE__, str1, first, rc);
}
/*--------------------------------------------------*/
rc = strfirstchar_s(str1, RSIZE_MAX_STR+1, 'a', &first);
if (rc != ESLEMAX) {
    printf("\%s \%u  Error  str1=%p  first=%p  rc=%d \n", 
            __FUNCTION__, __LINE__, str1, first, rc);
}
/*--------------------------------------------------*/
str1[0] = \0;

crc = strfirstchar_s(str1, LEN, 'a', &first);
if (rc != ESETDFND) {
    printf("%s %u  Error str1=%p  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");

crc = strfirstchar_s(str1, LEN, 'z', &first);
if (rc != ESETDFND) {
    printf("%s %u  Error str1=%p  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "kEep it simple");

crc = strfirstchar_s(str1, LEN, 'E', &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (first != &str1[1]) {
    printf("%s %u  Error str1=%p  first=%p  rc=%d \n",
        __FUNCTION__, __LINE__, str1, first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simpleZ");

crc = strfirstchar_s(str1, LEN, 'Z', &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (first != &str1[14]) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}

// printf("%s %u str1=%p first=%p rc=%d \n", 
//        __FUNCTION__, __LINE__, str1, first, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simpleZ");
len = strlen(str1);

rc = strfirstchar_s(str1, len, 'Z', &first);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", 
        __FUNCTION__, __LINE__, rc);
}

if (first != &str1[14]) {
    printf("%s %u Error str1=%p first=%p rc=%d \n", 
        __FUNCTION__, __LINE__, str1, first, rc);
}

// printf("%s %u str1=%p first=%p rc=%d \n", 
//        __FUNCTION__, __LINE__, str1, first, rc);

/*--------------------------------------------------*/

*/---------------------------------------------------------------*/

printf("\n\nDone \n");
return;
}

static void test_strfirstdiff_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t ind;

    char str1[LEN];
    char str2[LEN];

    /*-----------------------------------------------*/
printf("strfirstdiff_s TESTING\n");
rc = strfirstdiff_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strfirstdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
/*   K - k == -32 */
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
//        printf("%s %u ind=%d   rc=%d \n",
//                     __FUNCTION__, __LINE__, ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "Kee p it simple");
strcpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 1) {
    printf("%s %u Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
//        printf("%s %u    ind=%d   rc=%d \n",
//                     __FUNCTION__, __LINE__, ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "kEep it simple");
strcpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
//        printf("%s %u ind=%d   rc=%d \n",
//                     __FUNCTION__, __LINE__, ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keEp it simple");

rc = strfirstdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (ind != 2) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
rc = strfirstdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strfirstdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/

    printf("\n\nDone \n");
}

#if 0
static void test_strfirstsame_s(void)
{
    int LEN=128;
    errno_t rc;

    rsize_t ind;

    char str1[LEN];
    char str2[LEN];

    /*---------------------------------------------*/
    printf("strfirstsame_s TESTING\n");

    rc = strfirstsame_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = strfirstsame_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = strfirstsame_s(str1, LEN, str2, NULL);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = strfirstsame_s(str1, 0, str2, &ind);
    if (rc != ESZEROL) {
printf("\%s \%u Error rc=\%d \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------*/
rc = strfirstsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("\%s \%u Error rc=\%d \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
str1[0] = \'0\';
str2[0] = \'0\';

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("\%s \%u Error rc=\%d \n",
__FUNCTION__, __LINE__, rc);
}
    if (ind != 0) {
        printf("\%s \%u Error ind=\%d rc=\%d \n",
            __FUNCTION__, __LINE__, ind, rc);
    }

/*--------------------------------*/
strcpy (str1, "Keep it simple");
strcpy (str2, "keep it simple");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("\%s \%u Error rc=\%d \n",
__FUNCTION__, __LINE__, rc);
}
    if (ind != 1) {
        printf("\%s \%u Error ind=\%d rc=\%d \n",
            __FUNCTION__, __LINE__, ind, rc);
    }

printf("\%s \%u ind=\%d   rc=\%d \n",
            __FUNCTION__, __LINE__, ind, rc);

/*--------------------------------------------------*/
strcpy (str1, "kEEP it simple");
strcpy (str2, "keep it simple");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
/*------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLe");
rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
/*------------------------------------------------*/
strcpy (str1, "keep it simple");
/* same string for src and dest */
rc = strfirstsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
strcpy (str1, "KEEP it simple");
strcpy (str2, "keep it simple");

/* unterminated */
rc = strfirstsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u Error ind=%d rc=%d \n", 
            __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

/* unterminated */
rc = strfirstsame_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u Error ind=%d rc=%d \n", 
            __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

rc = strfirstsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u Error ind=%d rc=%d \n", 
            __FUNCTION__, __LINE__, ind, rc);
}

printf("\n\nDone \n");
#endif

static void test_strisalphanumeric_s(void)
{
    int LEN=128;
    boolean_t rc;

    uint32_t len;
    char   str[LEN];
printf("strisalphanumeric_s TESTING
");

len = 5;
rc = strisalphanumeric_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

len = 0;
rc = strisalphanumeric_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

/* exceeds max */
len = 99999;
rc = strisalphanumeric_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

/* empty string */
rc = strisalphanumeric_s("", LEN);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy(str, "123456789");
len = 4;

/* unterminated */
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
            __FUNCTION__, __LINE__,  rc);
}
strcpy(str, "N");

/* too short */
rc = strisalphanumeric_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "NowISTHETimE4us");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

strcpy(str, "qq21ego");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
strcpy(str, "1234");
str[2] = 132;
/* special char */
len = strlen(str);
/* special char embedded */
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/
strcpy(str, "!@#$%^&*(){}[]:;\"'?/.>,<");
len = strlen(str);
rc = strisalphanumeric_s(str, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}
/*--------------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strisascii_s(void)
{
int LEN=128;
boolean_t rc;
uint32_t len;
char str[LEN];
/*--------------------------------------------------*/
printf("strisascii_s TESTING\n");
len = 5;
rc = strisascii_s(NULL, len);
if (rc != FALSE) {
printf("%s %u Error rc=%u \n",
__FUNCTION__, __LINE__, rc );
}

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len = 0;
rc = strisascii_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

len = 99999;
rc = strisascii_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

/* empty string */
rc = strisascii_s("", 2);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy (str, "ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = strisascii_s(str, 2);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}

strcpy (str, "N");
len = strlen(str);

/* len too short */
rc = strisascii_s(str, 1);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__,  rc);
}
strcpy (str, "N");
len = strlen(str);
rc = striscii_s(str, 2);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "NowISTHETimE");
len = strlen(str);
rc = striscii_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "qq21ego");
len = strlen(str);
rc = striscii_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1234");
str[2] = 132; /* special char */
len = strlen(str);

/* special char embedded */
rc = striscii_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
static void test_strisdigit_s(void)
{
int LEN=128;
  boolean_t rc;

  uint32_t len;
  char str[LEN];

  /*-----------------------------*/
  printf("strisdigit_s TESTING\n");

  len = 5;
  rc = strisdigit_s(NULL, len);
  if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }

  /*-----------------------------*/
  len = 0;
  rc = strisdigit_s("1234", len);
  if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }

  /*-----------------------------*/
  len = 99999;
  rc = strisdigit_s("1234", len);
  if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
  }

  /*-----------------------------*/
  len = 9;
  rc = strisdigit_s("", len);
  if (rc != FALSE) {

printf("%s %u   Error rc=%u \n", 
__FUNCTION__, __LINE__, rc );
}

strncpy(str, "$234567899");
len = 4;
/
* unterminated */
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
__FUNCTION__, __LINE__, rc );
}
/
*-------------------------------------------------*/

strcpy(str, "1");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
__FUNCTION__, __LINE__, rc );
}
/
*-------------------------------------------------*/

strcpy(str, "12");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n", 
__FUNCTION__, __LINE__, rc );
}
/
*-------------------------------------------------*/

strcpy(str, "1abcd");
len = strlen(str);
rc = strisdigit_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n", 
__FUNCTION__, __LINE__, rc );
}
static void test_strishex_s(void)
{
    int LEN=128;

    boolean_t rc;

    uint32_t len;
    char   str[LEN];

    printf("strishex_s TESTING\n");

    len = 5;
    rc = strishex_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
              __FUNCTION__, __LINE__,  rc);
    }

    str[0] = '\0';
    rc = strishex_s(str, 5);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
              __FUNCTION__, __LINE__,  rc);
    }

    len = 0;
    rc = strishex_s("1234", len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
              __FUNCTION__, __LINE__,  rc);
    }

    len = 99999;
    rc = strishex_s("1234", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

len = 9;
rc = strishex_s("", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy (str, "123456789");
len = 6;

/* unterminated */
rc = strishex_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy (str, "1");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy (str, "12");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
strcpy (str, "1Af");
len = strlen(str);

rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "FF");
len = strlen(str);
rc = strishex_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1ahzd");
len = strlen(str);

/* non hex char in string */
rc = strishex_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}

static void test_strislowercase_s(void)
{
    int LEN=128;

    boolean_t rc;


```c
uint32_t len;
char str[LEN];

/*--------------------------------------------------*/
printf("strislowercase_s TESTING\n");

len = 5;
rc = strislowercase_s(NULL, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99999;
rc = strislowercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 0;
rc = strislowercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

str[0] = \0;
rc = strislowercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy(str, "qqweqeqeqq");
len = 3;
rc = strislowercase_s(str, len);
if (rc != FALSE) {
```
printf("%s %u Error rc=%u \n",
    __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "qqweqeqeqeqq");
len = strlen(str);
rc = strslowercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "qqWe go");
len = strlen(str);
rc = strslowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "1234");
len = strlen(str);
rc = strslowercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strismixed_s(void)
{
    int LEN=128;

    boolean_t rc;

```c
rsizet len;
char str[LEN];

/*----------------------------------------*/
printf("strismixed_s TESTING\n");

len = 5;
rc = strismixedcase_s(NULL, len);
if (rc != FALSE) {
    printf("\"s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = 0;
rc = strismixedcase_s("test", len);
if (rc != FALSE) {
    printf("\"s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = RSIZE_MAX_STR+1;
rc = strismixedcase_s("test", len);
if (rc != FALSE) {
    printf("\"s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
len = 9;
rc = strismixedcase_s("", len);
if (rc != FALSE) {
    printf("\"s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str, "AaBbCcDdEeFf");
len = 5;
rc = strismixedcase_s(str, len);
if (rc != FALSE) {

```
printf("%s %u   Error rc=%u \n",
  __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

strcpy(str, "N");
len = strlen(str);

rc = strismixedcase_s(str, len);
if (rc != TRUE) {
  printf("%s %u   Error rc=%u \n",
    __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

strcpy(str, "NowISTHETimE");
len = strlen(str);

rc = strismixedcase_s(str, len);
if (rc != TRUE) {
  printf("%s %u   Error rc=%u \n",
    __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

strcpy(str, "qq21ego");
len = strlen(str);

rc = strismixedcase_s(str, len);
if (rc != FALSE) {
  printf("%s %u   Error rc=%u \n",
    __FUNCTION__, __LINE__,  rc);
}
/*--------------------------------------------------*/

strcpy(str, "1234");
len = strlen(str);

rc = strismixedcase_s(str, len);
if (rc != FALSE) {
  printf("%s %u   Error rc=%u \n",
    __FUNCTION__, __LINE__,  rc);
}
static void test_strispassword_s(void)
{
    int LEN=24;
    boolean_t rc;

    uint32_t len;
    char str[LEN];

    printf("strispassword_s TESTING\n");
    rc = strispassword_s(NULL, LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);

    rc = strispassword_s("", LEN);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);

    rc = strispassword_s("Test4You&", 0);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);

    rc = strispassword_s("Test4You&", 9);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);

    printf("\n\nDone \n");
}
Open Source Used In IOS XR Software 7.6.1  7402

rc = strispassword_s("", 9);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/
strcpy (str, "Test4You*123");
len = 8;
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/
strcpy (str, "Test4You*");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/
strcpy (str, "Test4You*Test4You*Test4You*");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------*/
strcpy (str, "Eest!22/");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
strcpy (str, "pa$$W0rD");
len = strlen(str);

rc = strispassword_s(str, len);
if (rc != TRUE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "Test");
len = strlen(str);
rc = strispassword_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone\n");

static void test_strisuppercase_s(void)
{
    int LEN=128;
    boolean_t rc;
    uint32_t len;
    char str[LEN];

    printf("strisuppercase TESTING\n");

    len = 5;
    rc = strisuppercase_s(NULL, len);
    if (rc != FALSE) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }
}
len = 99999;
rc = strisuppercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 0;
rc = strisuppercase_s("test", len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

str[0] = \0;
rc = strisuppercase_s(str, 5);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIGHIJ");
len = 7;
rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str, "ABCDEFGHIGHIJ");
len = strlen(str);
rc = strisuppercase_s(str, len);
if (rc != TRUE) {
    printf("%s %u Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
strcpy (str, "qqWe go");
len = strlen(str);

rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "1234");
len = strlen(str);
rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

strcpy (str, "!@#$%^&*()")
len = strlen(str);
rc = strisuppercase_s(str, len);
if (rc != FALSE) {
    printf("%s %u   Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

printf("\n\nDone \n");
}

static void test_strlastchar_s(void)
{
    int LEN=128;

erroff_t rc;

    char *last;
char str1[LEN];

/*----------------------------------------------*/
printf("strlastchar_s TESTING\n");

rc = strlastchar_s(NULL, LEN, 'a', &last);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
rc = strlastchar_s(str1, LEN, 'a', NULL);
if (rc != ESNULLP) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
rc = strlastchar_s(str1, 0, 'a', &last);
if (rc != ESZEROL) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
rc = strlastchar_s(str1, RSIZE_MAX_STR+1, 'a', &last);
if (rc != ESLEMAX) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
str1[0] = '\0';

rc = strlastchar_s(str1, LEN, 'a', &last);
if (rc != ESNOTFND) {
    printf("%s %u Error str1=%p last=%p rc=%d\n", __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, 5, 'z', &last);
if (rc != ESUNTERM) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "Keep it simple");
rc = strlastchar_s(str1, LEN, 'z', &last);
if (rc != EOK) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}
#endif  // NO_MESSAGES

strcpy (str1, "kEep it simple");
rc = strlastchar_s(str1, LEN, 'E', &last);
if (rc != EOK) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}

if (last != &str1[1]) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}
#endif  // NO_MESSAGES

strcpy (str1, "kEep it Simple");
rc = strlastchar_s(str1, LEN, 'S', &last);
if (rc != EOK) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}

strcpy (str1, "Keep it Simple");
rc = strlastchar_s(str1, LEN, 'S', &last);
if (rc != EOK) {
    printf("%s %u Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}
if (last != &str1[8]) {
    printf("%s %lu Error str1=%p last=%p rc=%d \n",
            __FUNCTION__, __LINE__, str1, last, rc);
}

/*-----------------------------------------------*/
/*-----------------------------------------------*/

printf("\n\nDone\n\n");
}

static void test_strlastdiff_s(void)
{
    int LEN=128;

    errno_t rc;
    rsize_t ind;
    char str1[LEN];
    char str2[LEN];

    /*-----------------------------------------------*/
    printf("strlastdiff TESTING\n");

    rc = strlastdiff_s(NULL, LEN, str2, &ind);
    if (rc != ESNULLP) {
        printf("%s %lu Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/

    rc = strlastdiff_s(str1, LEN, NULL, &ind);
    if (rc != ESNULLP) {
        printf("%s %lu Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------------------------*/

    rc = strlastdiff_s(str1, LEN, str2, NULL);
    if (rc != ESNULLP) {

stdio.h

rc = strlastdiff_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

rc = strlastdiff_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/

str1[0] = '0';
str2[0] = '0';

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error  ind=%d rc=%d \n",
           __FUNCTION__, __LINE__, ind, rc);
}
/*--------------------------------------------------*/

strcpy (str1, "Keep iT simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 6) {

```c

```
strcpy (str1, "KeeP it simple");
strcpy (str2, "keep it simple");

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 1) {
    printf("%s %u Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it siMple");
strcpy (str2, "keEp it Simple");

rc = strlastdiff_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 10) {
    printf("%s %u Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

strcpy (str1, "keep it simple");
rc = strlastdiff_s(str1, LEN, str1, &ind);
if (rc != ESNODIFF) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep it simple");
rc = strlastdiff_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*---------------------------------------------*/
printf("\n\nDone \n");
}

#if 0
static void test_strlastsame_s(void)
{
    int LEN=128;

erro_t rc;

    rsize_t ind;

    char str1[LEN];
    char str2[LEN];
/*----------------------------------------------------------------------*/
print("strlastsame_s TESTING\n");
rc = strlastsame_s(NULL, LEN, str2, &ind);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------------*/
rc = strlastsame_s(str1, LEN, NULL, &ind);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------------*/
rc = strlastsame_s(str1, LEN, str2, NULL);
if (rc != ESNULLP) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------------*/
rc = strlastsame_s(str1, 0, str2, &ind);
if (rc != ESZEROL) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------------*/
rc = strlastsame_s(str1, RSIZE_MAX_STR+1, str2, &ind);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}

/*-----------------------------------------------*/
strcpy (str1, "Keep it simple");
strcpy (str2, "keep_IT_SIMPLISTIC");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 3) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
        __FUNCTION__, __LINE__, ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "kEEP_IT_SIMPLE");
strcpy (str2, "keep it simplistic");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (ind != 0) {
    printf("%s %u  Error ind=%d rc=%d \n",
            __FUNCTION__, __LINE__, ind, rc);
}
printf("%s %u  ind=%d   rc=%d \n",
        __FUNCTION__, __LINE__, ind, rc);
/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keeP_IT_SIMPLE");

rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "KEEP it simple");
/* unterminated */
rc = strlastsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------------------------*/
strcpy (str1, "keep it simple");
/* same string for src and dest */
rc = strlastsame_s(str1, LEN, str1, &ind);
if (rc != EOK) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
if (ind != 13) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------------------------*/
strcpy (str1, "keep it simple");
/* unterminated */
rc = strlastsame_s(str1, 1, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n",
           __FUNCTION__, __LINE__,  ind, rc);
}
/*---------------------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");

/* unterminated */
rc = strlastsame_s(str1, 5, str2, &ind);
if (rc != ESUNTERM) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "KEEP_IT_SIMPLE");
rc = strlastsame_s(str1, LEN, str2, &ind);
if (rc != ESNOTFND) {
    printf("%s %u  Error ind=%d  rc=%d \n", __FUNCTION__, __LINE__, ind, rc);
}

/*--------------------------------------------------*/
printf("Done \n");
#endif

static void test_strljustify_s(void)
{
    int LEN=128;
    errno_t rc;
    int ind;

    uint32_t len;
    char str[LEN];

    /*-----------------------------*/
    printf("strljustify_s TESTING\n");

    len = 5;
    rc = strljustify_s(NULL, len);
    if (rc != ENULLP) {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }

    /*-----------------------------*/
}

len = 0;
rc = strljustify_s("test", len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99999;
rc = strljustify_s("test", len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* empty string */
rc = strljustify_s("", 12);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

// if (str[0] != '0') { // wonder why str[0] should be \0
//    printf("%s %u   Error -%s- \n",
//            __FUNCTION__, __LINE__, str);
// }

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy (str, "ABCDEFGHIJK");
len = 2;

/*--------------------------------------------------*/

/* unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, " ABCDEFGHIJK");
len = 5;
/* unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "A");
len = 1;
/* a one char string will be emptied - str[0]==\0 */
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;
/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc );
}
if (str[0] != '\0') {
    printf("%s %u Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

/*--------------------------*/
strzero_s(str, LEN);
strcpy (str, "ABC");
len = 3;

/* this will be unterminated */
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "ABC");
if (ind != 0) {
    printf("%s %u Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}

strljustify_s(str, len);
strcpy (str, "B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %u Error -%s- \n",
           __FUNCTION__, __LINE__, str, ind);
}

/*--------------------------*/
strzero_s(str, LEN);
strcpy (str, " B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %u Error -%s- \n",
           __FUNCTION__, __LINE__, str, ind);
}

strljustify_s(str, len);
strcpy (str, "B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %u Error -%s- \n",
           __FUNCTION__, __LINE__, str, ind);
}
strzero_s(str, LEN);
strcpy(str, "   B ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str, "B ");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}
//printf("%d   --%s-- \n", __LINE__, str);

strzero_s(str, LEN);
strcpy(str, "   C ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str, "C ");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}
//printf("%d   --%s-- \n", __LINE__, str);

strzero_s(str, LEN);
strcpy(str, "   NowISTHETimE       ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %s  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str, "NowISTHETimE       ");
if (ind != 0) {
    printf("%s %s  Error -%s- \n",
           __FUNCTION__, __LINE__, str);
}
    //printf("%d   --%s-- \n", __LINE__, str);
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, " qq21ego ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %s  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
    //printf("%d   --%s-- \n", __LINE__, str);
/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "   1234   ");
len = strlen(str);
rc = strljustify_s(str, len);
if (rc != EOK) {
    printf("%s %s  Error rc=%u \n",
           __FUNCTION__, __LINE__, rc);
}
    //printf("%d   --%s-- \n", __LINE__, str);
/*--------------------------------------------------*/
printf("\n\nDone 
");
}

static void test_strncat_s(void)
```c
{  
  int LEN=128;
  errno_t rc;

  int32_t ind;

  char   str1[LEN];
  char   str2[LEN];

  /*******************************/
  printf("strncat_s TESTING\n");

  rc = strncat_s(NULL, LEN, str2, LEN);
  if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", 
      __FUNCTION__, __LINE__, rc);
  }

  /*******************************/
  rc = strncat_s(str1, LEN, NULL, LEN);
  if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n", 
      __FUNCTION__, __LINE__, rc);
  }

  /*******************************/
  rc = strncat_s(str1, 0, str2, LEN);
  if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n", 
      __FUNCTION__, __LINE__, rc);
  }

  /*******************************/
  rc = strncat_s(str1, (RSIZE_MAX_STR+1), str2, LEN);
  if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n", 
      __FUNCTION__, __LINE__, rc);
  }

  strcpy(str1, "aaaaaaaaaa");
  strcpy(str2, "keep it simple");

  /*******************************/
  /*******************************/
}
rc = strncat_s(str1, 1, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '0') {
    debug_printf("%s %u  Expected null \n",
        __FUNCTION__, __LINE__);
}

/*==================================================================*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 2, str2, LEN);
if (rc != ESUNTERM) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

if (str1[0] != '0') {
    debug_printf("%s %u  Expected null \n",
        __FUNCTION__, __LINE__);
}
/*==================================================================*/
strcpy(str1, "aaaaaaaaaa");
strcpy(str2, "keep it simple");
rc = strncat_s(str1, 50, str2, LEN);
if (rc != EOK) {
    debug_printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

ind = strcmp(str1, "aaaaaaaaaakeep it simple");
if (ind != 0) {
    debug_printf("%s %u  Error -%s- \n",
        __FUNCTION__, __LINE__, str1);
}
/*==================================================================*/
/*==================================================================*/
/* TR example */
strcpy(str1, "good");
strcpy(str2, "bye");
rc = strncat_s(str1, 100, str2, 1000);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str1, "goodbye");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__,  str1);
}
/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "hello");
rc = strncat_s(str1, 6, "", 1);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str1, "hello");
if (ind != 0) {
    debug_printf("%s %u   Error -%s- \n",
                 __FUNCTION__, __LINE__,  str1);
}
/*--------------------------------------------------*/
/* TR example */
strcpy(str1, "hello");
rc = strncat_s(str1, 6, "X", 2);
if (rc != ESNOSPC) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__,  rc);
}
if (str1[0] != '\0') {
    debug_printf("%s %u Expected null \n",
                 __FUNCTION__, __LINE__);
/*----------------------------------*/
/* TR example */

strcpy(str1, "abc");

rc = strncat_s(str1, 7, "defghijklmn", 3);
if (rc != EOK) {
  debug_printf("%s %u   Error rc=%u \n",
               __FUNCTION__, __LINE__,  rc);
}
ind = strcmp(str1, "abcdef");
if (ind != 0) {
  debug_printf("%s %u   Error -%s- \n",
               __FUNCTION__, __LINE__,  str1);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strncpy_s(void)
{
  int LEN=128;
  errno_t rc;
  rsize_t nlen;

  int32_t ind;
  char str1[LEN];
  char str2[LEN];
  char dest[LEN];

  printf("strncpy_s TESTING\n");

  /*----------------------------------*/
  nlen = 5;
  rc = strncpy_s(NULL, LEN, str2, nlen);
  if (rc != ENULLP) {
    debug_printf("%s %u   Error rc=%u \n",
               __FUNCTION__, __LINE__,  rc);
  }

  /*----------------------------------*/

  strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
nlen = 5;
rc = strncmp_s(str1, 5, NULL, nlen);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<5; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
}
*/
/*--------------------------------------------------*/
rc = strncmp_s(str1, 0, str2, nlen);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';
rc = strncpy_s(str1, 5, str2, 0);
if (rc != ESZEROL) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<5; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
*/

 rc = strncmp_s(str1, (RSIZE_MAX_STR+1), str2, nlen);
if (rc != ESLEMAX) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
/rc-----------------------------------------------*/
strncpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';

 rc = strncmp_s(str1, 5, str2, 0);
if (rc != ESNULLP) {
    debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*
for (i=0; i<5; i++) {
    if (str1[i] != '\0') {
        debug_printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }
*/
```c
/*--------------------------------------------------*/
#if 1
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
strcpy(str2, "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb");

rc = strncpy_s(str1, 5, str2, (RSIZE_MAX_STR+1));
if (rc != ESLEMAX) {
   debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}
#endif

/*--------------------------------------------------*/
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
str2[0] = '\0';
nlen = 5;

rc = strncpy_s(&str1[0], LEN/2, &str2[0], nlen);
if (rc != EOK) {
   debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
}

/*----------------------------------------------------------------*/
for (i=0; i<LEN/2; i++) {
   if (str1[i] != '\0') {
      debug_printf("%s %u   Error rc=%u\n", __FUNCTION__, __LINE__, rc);
   }
}
/*
for (i=0; i<LEN; i++) {
   if (str1[i] != '\0') {
   
```
```c
strcpy(str1, "aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa");
nlen = 18;

rc = strncpy_s(&str1[0], LEN, &str1[5], nlen);
if (rc != ESOVRLP) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*
*/
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
str2[0] = '\0';
nlen = 10;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u   Error rc=%u \n",
                 __FUNCTION__, __LINE__, rc);
}
/*
*/
/*--------------------------------------------------*/
str1[0] = '\0';
strcpy(str2, "keep it simple");
nlen = 20;
```
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
nlen = 32;
rc = strncpy_s(str1, LEN, str2, nlen);
if (rc != EOK) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "qqweqeqeqeq");
strcpy(str2, "keep it simple");
rc = strncpy_s(str1, 1, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}
if (*str1 != '\0') {
    debug_printf("%s %u -%s- Error rc=%u \n",
        __FUNCTION__, __LINE__, str1, rc);
}
strcpy(str1, "qqweqeqeqq");
strcpy(str2, "keep it simple");

rc = strncpy_s(str1, 2, str2, nlen);
if (rc != ESNOSPC) {
    debug_printf("%s %u - Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc);
}

if (*str1 != '\0') {
    debug_printf("%s %u - Error rc=%u \n", 
                  __FUNCTION__, __LINE__, str1, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest, "                            ");
strcpy(str1, "hello");

rc = strncpy_s(dest, 6, str1, 100);
if (rc != EOK) {
    debug_printf("%s %u - Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc);
}

/* be sure the results are the same as strcmp */
ind = strcmp(dest, str1);
if (ind != 0) {
    debug_printf("%s %u - Error rc=%u \n", 
                  __FUNCTION__, __LINE__, str1, rc);
}

/*--------------------------------------------------*/
/* TR example */
strcpy(dest, "                            ");
strcpy(str2, "goodbye");
rc = strncpy_s(dest, 5, str2, 7);
if (rc != ESNOSPC) {
    debug_printf("%s %u - Error rc=%u \n", 
                  __FUNCTION__, __LINE__, rc);
}
/* TR example */

strcpy(dest, "");
strcpy(str2, "goodbye");

crc = strncpy_s(dest, 5, str2, 4);
if (rc != EOK) {
    debug_printf("\%s \%u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
in1 = strcmp(dest, "good");
if (in1 != 0) {
    debug_printf("\%s \%u -%s-  Error rc=%u \n",
                __FUNCTION__, __LINE__, str1, rc);
}

/*------------------------*/

strcpy(dest, "");
strcpy(str2, "good");
/*   strnlen("good") < 5   */
crc = strncpy_s(dest, 5, str2, 8);
if (rc != EOK) {
    debug_printf("\%s \%u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
in1 = strcmp(dest, "good");
if (in1 != 0) {
    debug_printf("\%s \%u -%s-  Error rc=%u \n",
                __FUNCTION__, __LINE__, str1, rc);
}

/*------------------------*/

strcpy(str1, "qq12345weqeqeqeq");
strcpy(str2, "it");
nlen = 10;
crc = strncpy_s(str1, 10, str2, nlen);
if (rc != EOK) {
    debug_printf("\%s \%u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
}
/* be sure the results are the same as strcmp */
ind = strcmp(str1, str2);
if (ind != 0) {
    debug_printf("%s %u -%s- Error rc=%u \n",
                 __FUNCTION__, __LINE__,  str1, rc);
}

// for (i=0; i<10; i++) {
//    printf("str1[%i] = %d \n", i, str1[i]);
// }

/*-----------------------------------------------*/
printf("\n\nDone \n");
}

static void test_strnlen_s(void)
{
    rsize_t len;
    rsize_t std_len;
    rsize_t max_len;

    printf("strnlen_s TESTING\n");

    /*-----------------------------------------------*/
    max_len = 3;
    len = strnlen_s(NULL, max_len);
    if (len != 0) {
        printf("%s %u Len=%u \n",
                __FUNCTION__, __LINE__,  len);
    }

    /*-----------------------------------------------*/
    max_len = 0;
    len = strnlen_s("test", max_len);
    if (len != 0) {
        printf("%s %u Len=%u \n",
                __FUNCTION__, __LINE__,  len);
    }

    /*-----------------------------------------------*/
max_len = RSIZE_MAX_STR+1;
len = strnlen_s("test", max_len);
if (len != 0) {
    printf("%s %u Len=%u \n",
              __FUNCTION__, __LINE__, len);
}
/*--------------------------------------------------*/

std_len = strlen(" ");
max_len = RSIZE_MAX_STR;
len = strnlen_s(" ", max_len);
if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n",
              __FUNCTION__, __LINE__, std_len, len);
}
/*--------------------------------------------------*/

std_len = strlen("t");
max_len = RSIZE_MAX_STR;
len = strnlen_s("t", max_len);
if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n",
              __FUNCTION__, __LINE__, std_len, len);
}
/*--------------------------------------------------*/

std_len = strlen("to");
max_len = RSIZE_MAX_STR;
len = strnlen_s("to", max_len);
if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n",
              __FUNCTION__, __LINE__, std_len, len);
}
/*--------------------------------------------------*/

std_len = strlen("testing");
max_len = RSIZE_MAX_STR;
len = strlen_s("testing", max_len);

if (std_len != len) {
    printf("%s %u std_len=%u len=%u \n", __FUNCTION__, __LINE__, std_len, len);
}

/*--------------------------------------------------*/
max_len = 1;
len = strlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n", __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
max_len = 2;
len = strlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n", __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/
max_len = 3;
len = strlen_s("testing", max_len);

if (len != max_len) {
    printf("%s %u len=%u \n", __FUNCTION__, __LINE__, len);
}

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strpbrk_s(void)
{
    int LEN=128;
}
errno_t rc;

char *first;
char *std_first;

char str1[LEN];
char str2[LEN];

/*--------------------------------------------------*/
printf("strpbrk_s TESTING\n");

rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(NULL, LEN, str2, LEN, &first);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, LEN, NULL, LEN, &first);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strpbrk_s(str1, 0, str2, LEN, &first);
if (rc != ESZERO) {
    printf("%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
rc = strpbrk_s(str1, LEN, str2, 0, &first);
if (rc != ESZEROL) {
    printf("\%s \%u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

rc = strpbrk_s(str1, RSIZE_MAX_STR+1, str2, LEN, &first);
if (rc != ESLEMAX) {
    printf("\%s \%u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

rc = strpbrk_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &first);
if (rc != ESLEMAX) {
    printf("\%s \%u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

str1[0] = '\0';
str2[0] = '\0';

/* not to be found */
rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != ESNOTFND) {
    printf("\%s \%u  Error first=\%p rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}
if (first != 0) {
    printf("\%s \%u  Error first=\%p rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}
std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("\%s \%u  first=\%p std_first=\%p rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}
```c
/*----------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "1234");

/* this will be unterminated */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "ke");

/* this will be OK as the "ke" chars will be found w/in the 2 chars */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != EOK) {
    printf("%s %u  Error first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__,  first, std_first, rc);
}

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "123456");
/* src will be unterminated */
rc = strpbrk_s(str1, 2, str2, LEN, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "123456");

/* src will be unterminated */
rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
```

if (first != 0) {
    printf("%s %u  Error  first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "");

rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

// printf("%s %u  first=%p  std_first=%p  rc=%d \n",
//            __FUNCTION__, __LINE__, first, std_first, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "k");

rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

// printf("%s %u  first=%p  std_first=%p  rc=%d \n",
//            __FUNCTION__, __LINE__, first, std_first, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, ");

rc = strpbrk_s(str1, LEN, str2, 1, &first);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

// printf("%s %u  first=%p  std_first=%p  rc=%d \n",
//            __FUNCTION__, __LINE__, first, std_first, rc);

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "ke");

rc = strpbrk_s(str1, LEN, str2, 2, &first);
if (rc != EOK) {
    printf("\%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("\%s %u  first=%p  std_first=%p  rc=%d \n", __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simple");
strcpy (str2, "hip");

rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK) {
    printf("\%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("\%s %u  first=%p  std_first=%p  rc=%d \n", __FUNCTION__, __LINE__, first, std_first, rc);
}

strcpy (str1, "keep it simply");
strcpy (str2, "123y");

rc = strpbrk_s(str1, LEN, str2, LEN, &first);
if (rc != EOK) {
    printf("\%s %u  Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}
std_first = strpbrk(str1, str2);
if (first != std_first) {
    printf("%s %u  first=%p  std_first=%p  rc=%d \n",
            __FUNCTION__, __LINE__, first, std_first, rc);
}

// printf("%s %u  first=%p  std_first=%p  rc=%d \n",
//                  __FUNCTION__, __LINE__, first, std_first, rc);

/*--------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strprefix_s(void)
{
    int LEN=128;

    errno_t rc;
    rsize_t len;

    char   str1[LEN];
    char   str2[LEN];

    printf("strprefix_s TESTING\n");
    /*---------------------------------------------*/

    rc = strprefix_s(NULL, LEN, str2);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = strprefix_s(str1, LEN, NULL);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%d \n",
                __FUNCTION__, __LINE__, rc);
    }
    /*---------------------------------------------*/

    rc = strprefix_s(str1, 0, str2);
    if (rc != ESZEROL) {
printf("%s %u  Error rc=%d \n",
    __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
rc = strprefix_s(str1, RSIZE_MAX_STR+1, str2);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
str1[0] = '\0';
str2[0] = '\0';
rc = strprefix_s(str1, LEN, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keep");
rc = strprefix_s(str1, 55, str2);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "kerp");
rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "ke");
strcpy(str2, "kerp");
rc = strprefix_s(str1, 55, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keeppp");
rc = strprefix_s(str1, 4, str2);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keeeep");
rc = strprefix_s(str1, 4, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
strcpy(str1, "keep it simple");
rc = strprefix_s(str1, 4, "");
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*----------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keep it sipmle and very long");
len = strlen(str1);
rc = strprefix_s(str1, len, str2);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it simple");
strcpy(str2, "keep it simple");

len = strlen(str1);

rc = strprefix_s(str1, len, str2);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("Done \n");
}

static void test_strremovews_s(void)
{
    int LEN=128;

    errno_t rc;
    int ind;

    uint32_t len;
    char str[LEN];

    /*---------------------------------------------*/
    printf("strremovews_s TESTING\n");

    len = 5;
    rc = strremovews_s(NULL, len);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%u \n",
               __FUNCTION__, __LINE__, rc);
    }

    /*---------------------------------------------*/

    len = 0;
}
strcpy(str, "test");
rc = strremovews_s(str, len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

len = 99;
strcpy(str, "test");
rc = strremovews_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* empty string */
strcpy(str, ");
rc = strremovews_s(str, 12);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

/* if (str[0] != '0') { \ strl should not be null here */
printf("%s %u   Error -%s- \n",
        __FUNCTION__, __LINE__, str);

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy(str, "ABCDEFGHIJK");
len = 2;

/*--------------------------------------------------*/

/* unterminated */
rc = strremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}
strzero_s(str, LEN);
strcpy (str, "      ABCDEFGHIJK");
len = 5;

/* unterminated */
rc = strremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n", 
   __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n", 
   __FUNCTION__, __LINE__, str);
}

strzero_s(str, LEN);
strcpy (str, "A");
len = 1;

/* a one char string will be emptied - str[0]=='0' */
rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", 
   __FUNCTION__, __LINE__, rc);
}
if (str[0] != '0') {
    printf("%s %u   Error -%s- \n", 
   __FUNCTION__, __LINE__, str);
}

strzero_s(str, LEN);
strcpy (str, "ABC");
len = 2;

/* this will be unterminated */
rc = strremovews_s(str, len);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n", 

if (str[0] != '\0') {
    printf("%s %u   Error -%s- \n",
          __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy(str, "   B");
len = strlen(str);
rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
          __FUNCTION__, __LINE__,  rc);
}

ind = strcmp(str, "B");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
          __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy(str, " C ");
len = strlen(str);
rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
          __FUNCTION__, __LINE__,  rc);
}

ind = strcmp(str, "C");
if (ind != 0) {
    printf("%s %u   Error -%s- \n",
          __FUNCTION__, __LINE__,  str);
}

/*--------------------------------------------------*/

strzero_s(str, LEN);
strcpy(str, " NowISTHETimE       ");
len = strlen(str);

rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

// printf(" --%s-- \
", str);

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, " qq21ego ");
len = strlen(str);

rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

// printf(" --%s-- \
", str);

/*--------------------------------------------------*/
strzero_s(str, LEN);
strcpy (str, "   1234   ");
len = strlen(str);

rc = strremovews_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

// printf(" --%s-- \
", str);

/*--------------------------------------------------*/
printf(" \n\nDone \
");
}

static void test_strspn_s(void)
{
    int LEN=128;

    errno_t rc;

rsizet count;
int32_t std_count;

char str1[LEN];
char str2[LEN];

/*--------------------------------------------------*/
printf("test_strspn_s TESTING\n");

rc = strspn_s(NULL, LEN, str2, LEN, &count);
if (rc != E_NULL) {
    printf("%s %u  Error rc=%d \n",
           _FUNCTION_, _LINE_, rc);
}
/*--------------------------------------------------*/
rc = strspn_s(str1, LEN, NULL, LEN, &count);
if (rc != E_NULL) {
    printf("%s %u  Error rc=%d \n",
           _FUNCTION_, _LINE_, rc);
}
/*--------------------------------------------------*/
rc = strspn_s(str1, str2, 0, LEN, &count);
if (rc != E_ZERO) {
    printf("%s %u  Error rc=%d \n",
           _FUNCTION_, _LINE_, rc);
}
/*--------------------------------------------------*/
rc = strspn_s(str1, 0, str2, LEN, &count);
if (rc != E_ZERO) {
    printf("%s %u  Error rc=%d \n",
           _FUNCTION_, _LINE_, rc);
}
/*--------------------------------------------------*/
rc = strspn_s(str1, LEN, str2, 0, &count);
if (rc != E_ZERO) {
    printf("%s %u  Error rc=%d \n",
           _FUNCTION_, _LINE_, rc);
}
/*-----------------------------------------*/

rc = strspn_s(str1, RSIZE_MAX_STR+1, str2, LEN, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------*/

rc = strspn_s(str1, RSIZE_MAX_STR, str2, RSIZE_MAX_STR+1, &count);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------*/

str1[0] = '0';
str2[0] = '0';

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
if (count != 0) {
    printf("%s %u  Error  count=%d rc=%d \n",
        __FUNCTION__, __LINE__, count, rc);
}
std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
        __FUNCTION__, __LINE__, count, std_count, rc);
}
/*-----------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, 2, str2, LEN, &count);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
        __FUNCTION__, __LINE__, rc);
}
/* since rc is ESUNTERM, don't expect count to be correct
   std_count = strspn(str1, str2);
   if (count != std_count) {
       printf("%s %u count=%d std_count=%d rc=%d \n",
                   __FUNCTION__, __LINE__, count, std_count, rc);
   }
*/
/*-----------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%d \n",
                   __FUNCTION__, __LINE__, rc);
}
/*-----------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "k");

rc = strspn_s(str1, LEN, str2, 1, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
                   __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n",
                   __FUNCTION__, __LINE__, count, std_count, rc);
}

// printf("%s %u count=%d std_count=%d rc=%d \n",
//            __FUNCTION__, __LINE__, count, std_count, rc);
/*-----------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "ke");

rc = strspn_s(str1, LEN, str2, 2, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n",
                   __FUNCTION__, __LINE__, rc);
}
std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

/*--------------------------------------------------*/
strcpy (str1, "keep it simple");
strcpy (str2, "keep");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u  count=%d  std_count=%d  rc=%d \n",
            __FUNCTION__, __LINE__, count, std_count, rc);
}

/*--------------------------------------------------*/
/*----------------------------------------------------------*/

strncpy(str1, "keep it simple");
strncpy(str2, "notincluded");

rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n", __FUNCTION__, __LINE__, count, std_count, rc);
}

/*----------------------------------------------------------*/

strcpy (str1, "keep it simple");
strcpy (str2, "1234567890");
rc = strspn_s(str1, LEN, str2, LEN, &count);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

std_count = strspn(str1, str2);
if (count != std_count) {
    printf("%s %u count=%d std_count=%d rc=%d \n", __FUNCTION__, __LINE__, count, std_count, rc);
}

/*----------------------------------------------------------*/

printf("\n\nDone \n");
}

static void test_strstr_s(void)
int LEN=128;

errno_t rc;

char *sub;
char *std_sub;

rsize_t len1;
rsize_t len2;

char   str1[LEN];
char   str2[LEN];

/*--------------------------------------------------*/
printf("strstr_s TESTING\n");

rc = strstr_s(NULL, LEN, str2, LEN, &sub);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strstr_s(str1, LEN, NULL, LEN, &sub);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strstr_s(str1, LEN, str2, LEN, NULL);
if (rc != ESNULLP) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
rc = strstr_s(str1, 0, str2, LEN, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
```c
/*------------------------------------------*/
rc = strstr_s(str1, RSIZE_MAX_STR+1, str2, LEN, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
rc = strstr_s(str1, LEN, str2, 0, &sub);
if (rc != ESZEROL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
rc = strstr_s(str1, LEN, str2, RSIZE_MAX_STR+1, &sub);
if (rc != ESLEMAX) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
strcpy(str1, "keep it all together");
*str2 = '\0';

rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != str1) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}

/*------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "kee");
/* substring at beginning */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
```
printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (sub != &str1[0]) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "eep it");

/* substring in the middle - left */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (sub != &str1[1]) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "ethe");

/* substring in the middle - right */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

if (sub != &str1[15]) {
    printf("%s %u Error rc=%d \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "er");

strcpy(str1, "keep it all together");
strcpy(str2, "eep it");
len1 = strlen(str1);
len2 = strlen(str2);

/* substring at the end */
rc = strstr_s(str1, len1, str2, len2, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[18]) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strstr_s(str1, 3, str2, LEN, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str1 is unterminated */
rc = strstr_s(str1, LEN, str2, 5, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
           __FUNCTION__, __LINE__, rc);
strcpy(str1, "keep it all together");
strcpy(str2, "1234");

len1 = strlen(str1);

/* str1 is unterminated */
rc = strstr_s(str1, len1, str2, LEN, &sub);
if (rc != ESNOTFND) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it all together");
strcpy(str2, "it all");

/* str2 is unterminated */
rc = strstr_s(str1, LEN, str2, 2, &sub);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != NULL) {
    printf("%s %u  Error rc=%d \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy(str1, "keep it all together");
strcpy(str2, "eep");

/* validate */
rc = strstr_s(str1, LEN, str2, LEN, &sub);
if (rc != EOK) {
    printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (sub != &str1[1]) {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

/* compare to legacy */
    std_sub = strstr(str1, str2);
    if (sub != std_sub) {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc);
    }

/*--------------------------------------------------*/
    printf("\n\nDone \n");
}

static void test_strtok_s(void)
{
    errno_t rc = EOK;

    char *p2str;
    char *p2tok;
    size_t len;
    char     str1[LEN];
    char     str2[LEN];

    printf("strtok_s TESTING\n");
    /*-----------------------------------------------*/

    p2tok = strtok_s(str1, NULL, str2,  &p2str);
    if (p2tok != NULL) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
    }

    /*-----------------------------------------------*/
    //  printf("test: %u \n", __LINE__);

    len = 0;
    p2tok = strtok_s(str1, &len, str2,  &p2str);
    if (p2tok != NULL) {
        printf("%s %u  Error rc=%u \n",
                __FUNCTION__, __LINE__, rc );
    }

}
printf("%s %u  Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

len = RSIZE_MAX_STR + 1;
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u  Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

len = 0;
p2tok = strtok_s(str1, &len, NULL, &p2str);
if (p2tok != NULL) {
    printf("%s %u  Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

p2tok = strtok_s(str1, &len, str2, NULL);
if (p2tok != NULL) {
    printf("%s %u  Error rc=%u \n",
__FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
// printf("test: %u \n", __LINE__);

/* no token test */
strcpy(str1, "aaaaaaaa");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s-  remaining -%s-  \n",
__FUNCTION__, __LINE__, p2tok, p2str);
}
//printf("token -%s- -%s- \n", p2tok, p2str);

/*------------------------------------------*/
//printf("test: %u \n", __LINE__);

strcpy(str1, "jklmnopqrst");
len = strlen(str1) - 2; /* cheat on len */
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s-  remaining -%s-  \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}

strcpy(str1, "aaamnopqrst");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s-  remaining -%s-  \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s-  -%s- \n", p2tok, p2str);

strcpy(str1, "aaamnopqrstfedcba");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s-  remaining -%s-  \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s-  -%s- \n", p2tok, p2str);

/*------------------------------------------*/
//printf("test: %u \n", __LINE__);

strcpy(str1, "aaamnopqrstfedcba");
len = strlen(str1);
strcpy(str2, "fedcba");
p2tok = strtok_s(str1, &len, str2, &p2str);
if (p2tok == NULL) {
    printf("%s %u token -%s-  remaining -%s-  \n",
            __FUNCTION__, __LINE__,  p2tok, p2str);
}
//printf("token -%s-  -%s- \n", p2tok, p2str);

/*------------------------------------------*/
if (strcmp(p2tok, "mnopqrst")) {
    printf("%s %u token -%s- remaining -%s- \n", __FUNCTION__, __LINE__, p2tok, p2str);
}

if (strcmp(p2tok, "mnopqrst")) {
    printf("%s %u token -%s- remaining -%s- \n", __FUNCTION__, __LINE__, p2tok, p2str);
}

//printf("token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

/*----------------------------------------------------------*/
/** [2] **/

p2tok = strtok_s(p2str, &len, str2, &p2str);
if (p2tok != NULL) {
    printf("%s %u token -%s- remaining -%s- \n", __FUNCTION__, __LINE__, p2tok, p2str);
}

//printf("token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

/*----------------------------------------------------------*/
/** [1] **/

strcpy(str1, "?a???b,,,#c");
len = strlen(str1);

strcpy(str2, ",");
/* change the tokenizer string */
p2tok = strtok_s(p2str, &len, str2, &p2str);
if (strcmp(p2tok, "a") ) {
    printf("%s %u token -%s- -%s- len=%d \n", __FUNCTION__, __LINE__, p2tok, p2str, (int)len );
}

//printf("token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

/*----------------------------------------------------------*/
/** [2] **/

strcpy(str1, "?a???b,,,#c");
len = strlen(str1);

strcpy(str2, ","); /* change the tokenizer string */
p2tok = strtok_s(p2str, &len, str2, &p2str); **/
p2tok = strtok_s(NULL, &len, str2, &p2str);

if (strcmp(p2tok, "??b") ) {
    printf("%s %u token -%s- -%s- len=%d \n", 
            __FUNCTION__, __LINE__, p2tok, p2str, (int)len);
    
    //printf("token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );
    
    /*-----------------------------*/
}

strcpy(str1, ",,0,1,23,456,789,a,b,\n");
len = strlen(str1);

strcpy(str2, ",\n");   /* change the tokenizer string */

printf("String to tokenize str1 = "%s"  len = %u
", str1, len);
printf("String of delimiters str2 = "%s" 
", str2);

p2str = str1;
p2tok = str1;

while (p2tok &

while (p2tok && len) {

    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);

    printf("  token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );
}

="/*/

strcpy(str1, ",.*;one,two;three;four*.*.five-six***\n");
len = strlen(str1);

strcpy(str2, ",;.*\n"); /* change the tokenizer string */

printf("String to tokenize str1 = "%s"  len = %u
", str1, len);
printf("String of delimiters str2 = "%s" 
", str2);

printf("    p2tok = strtok_s(str1, &len, str2, &p2str); \n");
p2tok = strtok_s(str1, &len, str2, &p2str);

printf("    token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

="/*/
printf(" p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf(" token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

/* len is zero at this point */
printf(" p2tok = strtok_s(NULL, &len, str2, &p2str); \n");
p2tok = strtok_s(NULL, &len, str2, &p2str);
printf(" token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );

/*-----------------------------*/

strcpy(str1, ",.*;one,two;three;four*.*.five-six***");

len = strlen(str1);

strcpy(str2, ",.;*" );

printf("String to tokenize str1 = "%s"  len = %u
", str1, len);
printf("String of delimiters str2 = "%s" 
", str2);

p2str = str1;
p2tok = str1;

while (p2tok && len) {
   printf(" p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
p2tok = strtok_s(p2str, &len, str2, &p2str);
   printf(" token -%s- -%s- len=%d \n", p2tok, p2str, (int)len );
strcpy(str1, ",.*;one,two;three.;four*.*.five-six***");

len = strlen(str1) - 1; /* back off the null */
strcpy(str2, ",.;*" );
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);
p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(p2str, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}

strcpy(str1, ",.*;one,two;three.;four*.*.five-six***");

len = strlen(str1) - 15; /* back off a few! */
strcpy(str2, ",.;*" );
printf("String to tokenize str1 = \"%s\"  len = %u\n", str1, len);
printf("String of delimiters str2 = \"%s\" \n", str2);
p2str = str1;
p2tok = str1;

while (p2tok && len) {
    printf("  p2tok = strtok_s(p2str, &len, str2, &p2str); \n");
    p2tok = strtok_s(NULL, &len, str2, &p2str);
    printf("  token -%s-  -%s- len=%d \n", p2tok, p2str, (int)len );
}
static void test_strtolowercase_s(void)
{
int LEN=128;

errno_t rc;

size_t len;
char str[LEN];

printf("strtolowercase_s TESTING\n");

/*-------------------------------*/

len = 5;
rc = strtolowercase_s(NULL, len);
if (rc != ESNULLP) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*-------------------------------*/

len = 0;
strcpy(str, "test");
rc = strtolowercase_s(str, len);
if (rc != ESZEROL) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*-------------------------------*/

len = 99;
strcpy(str, "test");
rc = strtolowercase_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
/*-------------------------------*/
strcpy(str, "N");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/
strcpy(str, "NOWISTHETIME");
rc = strtolowercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
/*--------------------------------------------------*/
strcpy(str, "NOWISTHETIME");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (strcmp(str, "nowisthetime") ) {
    printf("%s %u   Error -%s- \n", __FUNCTION__, __LINE__, str);
}
/*--------------------------------------------------*/
strcpy(str, "qqeRo");
len = strlen(str);
rc = strtolowercase_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
if (strcmp(str, "qqero") ) {

printf("%s %u  Error -%s- \n",
    __FUNCTION__, __LINE__, str);
}

/*--------------------------------------------------*/

strcpy(str, "1234");
len = strlen(str);

rc = strtolowercase_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u  Error rc=%u \n",
        __FUNCTION__, __LINE__, rc);
}

/*--------------------------------------------------*/

printf("\n\nDone\n");
}

static void test_strtouppercase_s(void)
{
    int LEN=128;

    errno_t rc;

    rsize_t len;
    char str[LEN];

    /*--------------------------*/
    printf("strtouppercase_s TESTING\n");

    len = 5;
    rc = strtouppercase_s(NULL, len);
    if (rc != ESNULLP) {
        printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }

    /*--------------------------*/

    len = 0;
    strcpy(str, "test");
    rc = strtouppercase_s(str, len);
    if (rc != ESZEROL) {
        printf("%s %u  Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
    }

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/*----------------------------------------------------------------------*/

len = 99;
strcpy(str, "test");
rc = strToUppercase_s(str, len);
if (rc != ESLEMAX) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "n");
len = strlen(str);
rc = strToUppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "nowisthetime");
rc = strToUppercase_s(str, 5);
if (rc != ESUNTERM) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}

strcpy (str, "nowisthetime");
len = strlen(str);
rc = strToUppercase_s(str, len);
if (rc != EOK) {
    printf("%s %u Error rc=%u \n",
            __FUNCTION__, __LINE__, rc);
}
if (strcmp(str, "NOWISTHETIME")) {
    printf("%s %u Error -%s- \n",
            __FUNCTION__, __LINE__, str);
}
strncpy (str, "qqeRo");
len = strlen(str);

rc = strtoupper_s(str, len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

if (strcmp(str, "QQERO") ) {
    printf("%s %u   Error -%s- \n",
            __FUNCTION__, __LINE__,  str);
}

strncpy (str, "1234");
len = strlen(str);

rc = strtoupper_s(str, 2);
if (rc != ESUNTERM) {
    printf("%s %u   Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

printf("\n\nDone \n");
}

static void test_strzero_s(void)
{
    int LEN=128;
    errno_t rc;
    rsize_t max_len;
    char str1[LEN];
    uint32_t i;

    printf("strzero_s TESTING\n");

    rc = strzero_s(NULL, 5);
    if (rc != ESNULLP) {
        printf("%s %u   Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
}
rc = strzero_s(str1, 0);
if (rc != ESZEROL) {
    printf("\%s \%u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

rc = strzero_s(str1, RSIZE_MAX_STR+1);
if (rc != ESLEMAX) {
    printf("\%s \%u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}

/*--------------------------------------------------*/

max_len = 1;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("\%s \%u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("\%s \%u Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
}

/*--------------------------------------------------*/

max_len = 2;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("\%s \%u Error rc=%u \n",
            __FUNCTION__, __LINE__,  rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("\%s \%u Error rc=%u \n",
                __FUNCTION__, __LINE__,  rc);
    }
}
max_len = 3;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
}

max_len = LEN;
rc = strzero_s(str1, max_len);
if (rc != EOK) {
    printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
}
for (i=0; i<max_len; i++) {
    if (str1[i] != '\0') {
        printf("%s %u   Error rc=%u \n", __FUNCTION__, __LINE__, rc);
    }
}

printf("\n\nDone \n");
}

void test_void (void)
{
    
}
% model digraph
! Describe the model. You have structured your test as a
directed graph. Start keywords in column 1. Start the code at an
offset(2TABS). This line("model digraph") can have an optional keyword.
is "vdag". This would generate test cases representing various
acyclic paths leading from the start node. These tests cover all nodes.

!-------------------------------------------------------------------------
% model digraph
! Describe the model. You have structured your test as a
directed graph. Start keywords in column 1. Start the code at an
offset(2TABS). This line("model digraph") can have an optional keyword.

! acyclic paths leading from the start node. These tests cover all nodes.
! This does not guarantee that all the edges are covered.
! If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic
! Graph) then you should use this keyword.
!
% model digraph vdag
! There are three keywords. They are
! start node <nodeIdentifier> - Specify the start node in the model
! node <nodeIdentifier>: - Beginning of a node description.
! Include descriptions for all edges starting at this node.
! If there is code to be executed upon entry to this node
! enter that immediately following this line but before
! entering any edge description.
! -><nodeIdentifier>: - Beginning of an edge description. This describes an
! edge from the node to &lt;nodeIdentifier>. These identifiers are used during runtime to present execution times
! and other data.
! You can specify parameters for your unit test as follows:
! parameters:(uint interface, char* hostname="abc", uint subInterface=1)
! This should come before the line specifying the start node.
! The parameters can be used in the code for nodes/edges. The values
! for parameters are received via CLI or as a result of direct invocation of
! the generated function. Parameters can be of type 'uint'
! or 'char*'. If values for parameters are provided on CLI defaults are used.
! You should provide default values. If default values are not specified
! then the tool would assign default values. If the type is "uint" the
! default value is 0. Else(type char*) the default value is "".
! During automation the default values are used. Use descriptive names
! for parameters.
! parameters: (uint testcase = 1)
start node StartNode
! You can place initialization code that needs to be executed
! prior to entering the start node here.
node StartNode:
  int i=0;

  for (i=0; i<MaxTestCases; i++)
    testFuncs[i] = &test_void;

  // test case index starts at 1
  // memory related functions
  testFuncs[1] = &test_memcmp_s;
  testFuncs[2] = &test_memcpy_s;
  testFuncs[3] = &test_memmove_s;
  testFuncs[4] = &test_memzero_s;

  // string related functions
  testFuncs[10] = &test_strcasecmp_s;
  testFuncs[12] = &test_strcat_s;
  testFuncs[13] = &test_strcmp_s;
  testFuncs[14] = &test_memcmpfld_s;
  testFuncs[15] = &test_memcpyfld_s;
  testFuncs[16] = &test_memmovefld_s;
  testFuncs[17] = &test_memzerofld_s;
  testFuncs[18] = &test_memcpyfldin_s;
  testFuncs[19] = &test_memmovefldin_s;
  testFuncs[20] = &test_strfirstchar_s;
  testFuncs[21] = &test_strfirstdiff_s;
  testFuncs[22] = &test_strfirstsame_s;
  testFuncs[23] = &test_strisalphanumeric_s;
  testFuncs[24] = &test_strisascii_s;
  testFuncs[25] = &test_strisdigit_s;
  testFuncs[26] = &test_strishex_s;
  testFuncs[27] = &test_strislowercase_s;
  testFuncs[28] = &test_strismixed_s;
  testFuncs[29] = &test_strispassword_s;
  testFuncs[30] = &test_strissuppercase_s;
  testFuncs[31] = &test_strlastchar_s;
  testFuncs[32] = &test_strlastdiff_s;
  testFuncs[33] = &test_strlastsame_s;
  testFuncs[34] = &test_strjustify_s;
  testFuncs[35] = &test_strncat_s;
  testFuncs[36] = &test_strncpy_s;
  testFuncs[37] = &test_strnlen_s;
  testFuncs[38] = &test_strpbrk_s;
  testFuncs[39] = &test_strprefix_s;
  testFuncs[40] = &test_strremovews_s;
testFuncs[41] = &test_strspn_s;
testFuncs[42] = &test_strstr_s;
testFuncs[43] = &test_strtok_s;
testFuncs[44] = &test_strtolowercase_s;
testFuncs[45] = &test_strtouppercase_s;
testFuncs[46] = &test_strzero_s;

printf("\nSAFE STRING APIs TESTING\n");
printf("10 to test all memory funcs\n");
printf("50 to test all string funcs\n");
printf("60 to test all funcs\n");

printf("---------------------------\n");
// magic number to test all memory funcs
if (testcase == 10)
for (i=0; i<4; i++)
(*testFuncs[i])();

// magic number to test all string funcs
if (testcase == 50)
for (i=10; i<MaxTestCases; i++)
(*testFuncs[i])();

// magic number to test all funcs
if (testcase == 60)
for (i=1; i<MaxTestCases; i++)
(*testFuncs[i])();

(*testFuncs[testcase])();

printf("\n---------------------------\n");
printf("\nSAFE STRING APIs TESTING DONE\n");

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/sesut-test/safe_string_ios.sesut
No license file was found, but licenses were detected in source scan.

# $Id:$
# $Source:$
#------------------------------------------------------------------
# Jamfile - specify NG rules to build this component.
# May 2013, Subramanian Karunanithi
# Copyright (c) 2013, 2022 by cisco Systems, Inc.
# All rights reserved.
#------------------------------------------------------------------

IosMain safec_test
: test_safe.c
: libsafer
;

IosMain test_str_safe
: test_str_safe.c
: libsafer
;
#
#-----------------------------------------------
# $Log:$
#-----------------------------------------------
# $Endlog$
#

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC/test/src/Jamfile
No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
# infra/safeC/test/Jamfile
#
# May-2013, Subramanian Karunanithi
#
# Copyright (c) 2013 by cisco Systems, Inc.
# All rights reserved.
#-----------------------------------------------
SubDir TOP infra safeC test ;

IosComponentSrc infra safeC test ;

#-----------------------------------------------
# End of infra/safeC/test/Jamfile
#-----------------------------------------------

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safeC/test/src/Jamfile
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * stris uppercase.s.c
 *  
 * October 2008, Bo Berry
 * 
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 * All rights reserved.
 *-----------------------------------------------
/*

Safe limits include for portability

February 2009, Bo Berry

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*/

/*

Safe string constraint include for portability

October 2008, Bo Berry

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*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/safe_str_constraint.h

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

/©------------------------------------------------------------------
* safe_mem_constraint.h
*
* October 2008, Bo Berry
*
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* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/safe_mem_constraint.h
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/*------------------------------------------------------------------
* safec_config.h -- common preprocessor macro definitions
* 
* March 2016, Philip Perricone
* 
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Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safec_config.h
No license file was found, but licenses were detected in source scan.

/∗----------------------------------------------
 * test_strzero_s
 * To test strzero_s() function
 *
 * May 2013, Subramanian K
 *
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 *
*----------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/test/src/test_strzero_s.c
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#
# Makefile for libsapec
#
# Sep 2013, Srivathsan S
#
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AC_INIT([libsapec], [1.0], [csdl-dev@cisco.com])
AM_INIT_AUTOMAKE([-Wall -Werror foreign])

# Perform Some basic Checks
AC_MSG_NOTICE([Checking programs and Header Files])
AC_PROG_CC
AC_CHECK_HEADERS([stdlib.h 
    string.h 
    limits.h 
    errno.h 
    ])

# Initialize the Libtool Library
AC_ENABLE_SHARED
AC_DISABLE_STATIC
AC_PROG_LIBTOOL(libtool)
AC_CONFIG_FILES([Makefile])
AC_OUTPUT

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-targz/safeC/configure.ac
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/*------------------------------------------------------------------
* strstr_s.c
*
* November 2008, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-targz/safeC/src/safe_string/strstr_s.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* strtok_s.c
*
* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/

Found in path(s):


* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_str_lib.h
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------------------------*/
* safe_str_lib.h -- Safe C Library String APIs
* 
* October 2008, Bo Berry
* 
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*-------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/include/safe_str_lib.h
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------------------------*/
* strcasestr_s.c
* 
* November 2008, Bo Berry
* 
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* */

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/src/safe_string/strcasestr_s.c
No license file was found, but licenses were detected in source scan.
#infra/safeC/IosApiExports
#
# May-2013, Subramanian Karunanithi
#
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#

IosApi
   safec__mem_primitives_lib__api
: 0x15A10001
: 1.0 ;

IosApi
   safec__safe_lib_errno__api
: 0x15A10002
: 1.1 ;

IosApi
   safec__safe_lib__api
: 0x15A10003
: 1.2 ;

IosApi
   safec__safe_limits__api
: 0x15A10004
: 1.3 ;

IosApi
   safec__safe_mem_constraint__api
: 0x15A10005
: 1.4 ;

IosApi
   safec__safe_mem_lib__api
: 0x15A10006
: 1.5 ;

IosApi
   safec__safe_str_constraint__api
: 0x15A10007
: 1.6 ;

IosApi
   safec__safe_string__api
: 0x15A10008
: 1.7 ;
IosApi
safec__safe_str_lib__api
: 0x15A10009
: 1.8;

IosApi
safec__safe_types__api
: 0x15A1000A
: 1.9.0;

IosApiExportHeaders
infra safeC
: safe_lib.h
  safe_lib_errno.h
  safe_limits.h
  safe_mem_lib.h
  safe_stdlib.h
  safe_str_lib.h
  safe_string.h
  safe_types.h
  safec_config.h
  safec_mem_lib.h
  safec_str_lib.h
;

IosApiExportHeaders
infra safeC
: mem_primitives_lib.h
: infra safeC src safe_string
;

Found in path(s):
* /opt/cola/permits/1267931345_1648450600.51/0/infra-safec-tar-gz/safeC/IosApiExports.jam

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Alexey Naidonov <alexey.naidyonov@gmail.com>
Alexey Neganov <neganovalexy@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Rizi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Alok Mengrajani <alok.mengrajani@gmail.com>
Aman Gupta <aman@tmn1.net>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Anand K. Mistry <anand@mistry.ninja>
Anders Pearson <anders@columbia.edu>
Andr Carvalho <asanantos@gmail.com>
Andre Nathan <andreth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <ead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <sanj@google.com>
Andreas Litt <andreas.litt@gmail.com>
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Andrei Tudor Clin <mail@acln.ro>
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Andrew Benton <andrewmbenton@gmail.com>
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Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrewekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@gmail.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
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Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindrajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviya@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurlien.rainone@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
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Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayanamist@gmail.com>
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Baiju Muthukadan <baiju.m.mail@gmail.com>
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Baokun Lee <nototon@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanoobiben@users.noreply.github.com>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Erwin Oegema <blaiblaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocoold@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fsahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fisimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczyski <gruszczyszy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
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Florian Forster <octo@google.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
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Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Niranj Godbole <niranj8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
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Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dmage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Toninhofer <olt@bogosoft.com>
Oliver Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osainingre@gmail.com>
Omar Jarjur <ojarjur@gmail.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afeilion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat-goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>
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Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@gmail.com>
Rob Norman <rob.norman@infinitycloud.com>
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1.583 zeromq 4.3.2-r0

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**1.584 wget 1.20.3 r0**

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* configure.ac, Makefile.am: The original versions were derived from the
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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5caff2bb5b6.

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

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
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Library will not necessarily be able to recompile the application
to use the modified definitions.)

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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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1.593 findutils 4.7.0-r0

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1.594 jcmtturner-gokrb 8.0.0

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    cmd/krb5/iprop/iprop_hdr.h
    cmd/krb5/kadmin/server/ipropd_svc.c
    cmd/krb5/kproplog/kproplog.c
    cmd/krb5/slave/kpropd_rpc.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mach/spnego_mech.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
    lib/krb5/kdb/kdb_hdr.h
    lib/krb5/kdb/kdb_log.c
    lib/krb5/kdb/kdb_log.h
    lib/libgss/g_accept_sec_context.c
    lib/libgss/g_acquire_cred.c
    lib/libgss/g_canon_name.c
    lib/libgss/g_compare_name.c
    lib/libgss/g_context_time.c
    lib/libgss/g_delete_sec_context.c
    lib/libgss/g_dsp_name.c
    lib/libgss/g_dsp_status.c
    lib/libgss/g_dup_name.c
    lib/libgss/g_exp_sec_context.c
    lib/libgss/g_export_name.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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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<td><a href="mailto:aart@a-30.net">aart@a-30.net</a></td>
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<td><a href="mailto:aymerick@jehanne.org">aymerick@jehanne.org</a></td>
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<td><a href="mailto:leczb@gmail.com">leczb@gmail.com</a></td>
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<td><a href="mailto:ben@benburkert.com">ben@benburkert.com</a></td>
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<td><a href="mailto:eitzenb@golang.org">eitzenb@golang.org</a></td>
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<td><a href="mailto:b@b3k.us">b@b3k.us</a></td>
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<td><a href="mailto:Berengar.Lehr@gmx.de">Berengar.Lehr@gmx.de</a></td>
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<tr>
<td>Bill Neubauer</td>
<td><a href="mailto:wcn@golang.org">wcn@golang.org</a></td>
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<td><a href="mailto:bhcleek@gmail.com">bhcleek@gmail.com</a></td>
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<td><a href="mailto:bradfitz@golang.org">bradfitz@golang.org</a></td>
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<td>Brad Garcia</td>
<td><a href="mailto:bgarcia@golang.org">bgarcia@golang.org</a></td>
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<tr>
<td>Brian Ketelsen</td>
<td><a href="mailto:bketelsen@gmail.com">bketelsen@gmail.com</a></td>
</tr>
<tr>
<td>Brian Slesinsky</td>
<td><a href="mailto:skybrian@gmail.com">skybrian@gmail.com</a></td>
</tr>
<tr>
<td>Brian Smith</td>
<td><a href="mailto:ohohvi@gmail.com">ohohvi@gmail.com</a></td>
</tr>
<tr>
<td>Bryan Ford</td>
<td><a href="mailto:bryanosaurus@gmail.com">bryanosaurus@gmail.com</a></td>
</tr>
<tr>
<td>Burcu Dogan</td>
<td><a href="mailto:burcujdogan@gmail.com">burcujdogan@gmail.com</a></td>
</tr>
</tbody>
</table>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Jonathan Allie <jonallie@gmail.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmak@xenops.com> <jhmak000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>
Joseph Bonneau <jeb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josh_snyder@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Joshua Chase <jcjoshuachase@gmail.com>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtoolds@xnet5.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Schmidt <google@julienschmidt.com>
Justin Nu <nuss.justin@gmail.com>
Kai Backman <kaib@golang.org>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hukangustc@gmail.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xp.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Thompson <ken@golang.org>
Kevin Ballard <kevin@sb.org>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Szabolcs Nagy <nsz@port70.net>
Tad Glines <tad.glines@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <stobias.columbus@googlemail.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Heng <zhm20070928@gmail.com>
Tom Linford <tomlinford@gmail.com>
Tom Szymanski <tgs@google.com>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tor Andersson <tord.andersson@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tw <tw19881113@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Uriel Mangado <uriel@berlinblue.org>
Vadim Vygonets <unixdj@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhari <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Nikishenko <vova616@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Wei Guangjing <vcc.163@gmail.com>
Will Norris <willnorris@google.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Yan Zou <yzou@google.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yves.junqueira@gmail.com>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<bronze1man@gmail.com>
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1.597 google-cloud-go 0.75.0
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package cloud

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

---

Open Source Used In IOS XR Software 7.6.1 7750
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,
        "third_party/pkgsite/synopsis.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 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
    })
}
return nil
}
if err != nil {
    t.Fatal(err)
}

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1.598 briankassouf-jose 0.9.2-0.20180619214549-d2569464773f

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1.599 mongo-go-driver 1.4.6

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BSON library for Go

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Jan Mercl <0xjnml@gmail.com>
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Marc-Antoine Ruel <maruel@chromium.org>
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1.611 tftp-hpa 5.2

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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.

* 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

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 * SUCH DAMAGE.
 */
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  
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%prep  
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf %{_build_directory}
mkdir -p %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_cachedir}
mkdir -p %{_sysconfdir}/xinetd.d 
make INSTALLROOT=%{_build_directory} 
SBINDIR=%{_bindir} MANDIR=%{_mandir} 
install 
install -m755 -d %{_sysconfdir}/xinetd.d/tftpboot 
install -m644 tftp-xinetd %{_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 %{_build_directory}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
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  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
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* 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

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- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
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* 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

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is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

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- 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.

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  - build root

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  - 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

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  /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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-----------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
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* /opt/cola/permits/1242135837_1648510277.92/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h

1.612 gdb 7.9.1
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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
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a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, Lesser General Public License
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@appendixsubsec Preamble

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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
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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.

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to use the modified definitions.)

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\verb|one line to give the library's name and an idea of what it does.|
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Authors/contributors include:

A. Wilcox
Ada Worcester
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
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### `/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

```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"]
}
```
## 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

```
$ curl \
--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 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

```bash
```# Manage license for DR Secondary
path "sys/replication/dr/secondary/license" { capabilities = ["update"] }
```

### 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
```

## 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

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

---
```bash
$ 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`.

<table>
<thead>
<tr>
<th>Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td align="left"><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,
    "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-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",
"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"
}
# 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:

```bash
$ 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)

```bash
$ vault license get -signed
02MV4UU43BK5H...
```

Inspect a signed a license string:

```bash
$ 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
```
## 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.
--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

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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):

```
```
```
```
```
```
## 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.

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

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

---

```
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0
```

```
--
layout: docs
page_title: license get - Command
```
The "license get" command reports on the license in use.

# license get

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 [autoloading](/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-395db0ae9ba
performance_standby_count 9999
start_time               2021-05-17T00:00:00Z
```

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.

### 1.619 zlib 1.2.11

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1.621 oniguruma 6.9.6

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**1.623 libdaemon 0.14-r0**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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 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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1.631 binutils 2.34.0

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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 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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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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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
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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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Version 3, 29 June 2007

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pattern of such abuse occurs in the area of products for individuals to
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Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
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1.634 cpio 2.12

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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the only significant mode of use of the product.

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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
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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).

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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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1.635 x-oauth2 0.0.0-20190604053449-0f29369cfe45
1.635.1 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"
    }
}
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/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](https://github.com/gophercloud/gophercloud/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
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests
With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:
1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package 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)
    })
}
// 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)

        w.WriteHeader(http.StatusNoContent)
    })
}
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 {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {

// 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"
    "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
    })(bool, error)

    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)
ths.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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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 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/108)
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/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"`
}
```
```

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"`
}
```
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).

1.636 e2fsprogs 1.45.4-r0

1.636.1 Available under license:

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

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===================================================================
--- 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

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-  
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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 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".

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Gadi Oxman, August 1995

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1.644 zlib 1.2.11

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1.645 objx 0.1.1

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1.646 python3-decorator 4.4.2-r0

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1.647 libtasn 4.9
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That's all there is to it!

#!/bin/sh
# ylwrap - wrapper for lex/yacc invocations.

scriptversion=2013-01-12.17; # UTC

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1.648 util-linux 2.24.0

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**1.651 nettle 3.5.1**

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### 1.676 gopkg.in/resty 1.12.0

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### 1.677 nomad 0.0.0-20191220223628-edc62acd919d
# 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:

- `['license get']`[get] - Get the current license

[get]: /docs/commands/license/get 'Get the current license'

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# Command: license get

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.

## Usage

```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

```shell-session
$ 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

```shell-session
$ 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-policy
  multicluster-and-efficiency
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Audit Logging
  Sentinel Policies
  Multiregion 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

<<EnterpriseAlert />

## 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 -
```
https://localhost:4646/v1/operator/license

```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"]
        },
        "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
}
```

```go
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)
deferr 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",
            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
  }
}
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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# 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
    }

    resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{})
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
        return 1
    }

    return OutputLicenseReply(c.Ui, resp)
}

---

layout: docs
page_title: Nomad Enterprise Licensing
description: Learn about how Nomad Enterprise licensing works.
---

## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have its own license. Nomad Enterprise can be downloaded from the [releases site].

Click [here](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](https://nomadproject.io/trial) 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 = ae94bdd0-39bf-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:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Audit Logging
  Sentinel Policies
  Multiregion Deployments
  Automated Backups
  Multi-Vault Namespaces
  Dynamic Application Sizing
```

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.

```
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
```
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.

```bash
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

---

1.678 nettle 3.2

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Version 2, June 1991
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1.682 mitchellh-cli 1.1.0

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1.683 gabs 1.1.1

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1.684 unzip 6.0-r5

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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,
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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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1.685 ncurses 6.0

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1.687 zeromq 4.3.2

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wepoll - epoll for Windows
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1.696 busybox 1.24.1

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1.697 c-ares 1.14.0

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AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
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1.699 openssl 1.0.2j

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1.704 vault 0.1.14-0.20200519221838-e0cfd64bc267

1.704.1 Available under license:

### Enterprise Licenses

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.

---

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-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

```release-note:changes
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)
```

```{#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"
# `/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>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

```
```
```bash
$ 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"]
}
```

## 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>
<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

```shell-session
$ curl
   --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.

<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.

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

```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.
* `autoloading` 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`.

`autoloading`, `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`.

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

$LICENSE_INFO

@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-3e47-3b43-432927fa03e7","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-dc-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

```
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-3e47-3b43-432927fa03e7","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-dc-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

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
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-scenes-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: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#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)
- [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)?](#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)
- [Q: 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: 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-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: 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.

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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.

---

# license get

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 [autoloading](/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:

```
```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.
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-3e47-3b43432927fa03e7","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
```
## 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.

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1.705 nanopb 1.14.1

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Andrew Gerrand <adg@golang.org>
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Andreas Litt <andreas.litt@gmail.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
Dave Day <djd@golang.org>
David Sansome <me@davidsansome.com>
David Symonds <dsymonds@golang.org>
Filippo Valsorda <hi@filippo.io>
Glenn Lewis <gmlewis@gmail.com>
Ingo Oeser <nightlyone@googlemail.com>
James Hall <james.hall@shopify.com>
Johan Euphosine <proppy@google.com>
Jonathan Amsterdam <jba@google.com>
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Luna Duclos <luna.duclos@palmstonegames.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mario Castro <mariocaster@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Omar Jarjur <ojjarjur@google.com>
Pawe Knap <pawelknap88@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Sarah Adams <shadams@google.com>
Thanatat Tantam <acoshift@gmail.com>
Toby Burress <kurin@google.com>
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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.

# 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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1.728 go-autorest-to 0.3.0

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1.729 libusb 1.0.20

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1.730 sudo 1.8.23

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.
Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
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
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Grabber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
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Jackson, Brian
Jackson, John R.
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Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
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, Frederic
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
1.731 libgcrypt 1.6.1

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

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

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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Whether this is true is especially significant if the work can be
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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   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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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 Lesser General Public
License as published by the Free Software Foundation; either
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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!
----------
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
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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =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: 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

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University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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

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

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

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

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

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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > 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
> > 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.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't 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.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

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

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

-mike

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> make the change now?

> yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipv6.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 l91Gxtp020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1iddac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

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

Happy now? :-)

-a

1.736 selinux-init 0.1-r0

1.736.1 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)

eve: 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/1211787116_1648305082.21/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targ
z/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
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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-------

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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 59438b46471ae6cfd8b761af8c9beaf1e428a331. 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: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: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;
 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/1211787116_1648305082.21/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targ.gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0037-policy-modules-system-modutils-allow-mod_t-to-access.patch

1.737 runc 1.0.0+rc8+git0+425e105d5a-r0

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

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the
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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.

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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 qasm and uses the floating point registers.

This is, almost, a clean room reimplemention from the curve25519 paper. It uses many of the tricks described therein. Only the crecip function is taken from the sample implementation.

1.747 urfave-cli 1.22.1

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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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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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Protocol Buffers for Go with Gadgets

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

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1.750 libxml 2.9.10

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1.752 smartmontools 6.2

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    `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
1.753 linux-yocto
5.4.142+git0+719be4bd6c_108b8b-r0

1.753.1 Available under license:
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/1229754484_1648300922.82/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed9558afa-tar-gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed9558afa/recipes-security/refpolicy/files/setrans-mcs.conf

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

---

From 7002b4e33b94b474a0ce0b78a7f2e180dbbe9bb 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:
kernell: ccf80211: Problem loading in-kernel X.509 certificate (-13)

ave: denied { write } for pid=219 comm="modprobe"
scontext=sys_r: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/1229754484_1648300922.82/0/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa-targz/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.

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"
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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-------
All metadata is MIT licensed unless otherwise stated. Source code included in tree for individual recipes is under the LICENSE stated in each recipe (.bb file) unless otherwise stated.

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Found in path(s):
* /opt/cola/permits/1229754484_1648300922.82/0/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 59438b46471ae6cfd761af8c9beaf1e428a331. 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
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: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-targ.gz/meta-selinux-ab7ce3d5f68b6f00f155d892b9ba510ed95f8afa/recipes-security/refpolicy/refpolicy/0037-policy-modules-system-modutils-allow-mod_t-to-access.patch

1.754 gocql 0.0.0-202006242222514-34081eda590e

1.754.1 Available under license:

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1.755 query 1.0.0
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1.756 yajl 2.1.0
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1.757 x-crypto 0.0.0-20200930160638-afb6bcd081ae

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1.758 python 2.7.18

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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1.759 prometheus-procfs 0.1.3

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1.761 go-systemd 22.1.0

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1.762 x-crypto 0.0.0

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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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Whether this is true is especially significant if the work can be
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@end enumerate

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@end enumerate

@end iftex
@end ifinfo
@end page
@end heading
Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to 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 convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

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

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@end smallexample

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

@example

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

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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The gettext-runtime package is partially under the LGPL and partially under the GPL.

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- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
- the _programs_ gettext, ngettext, envsubst,
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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1.776 desktop-file-utils 0.24-r0

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1.783 libsemanage 3.0-r0

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Version 2.1, February 1999

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1.803 python-ncclient 0.6.3-r0.0

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1.804 x-text 0.3.5

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1.805 go-errors-errors 1.0.1

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1.806 file 5.27

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1.808 perl-module-carp-clan 6.08-r0

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1.809 go-runtime 1.15.3

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcbooxx@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollolouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aecdodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxxx@itelmo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Larrier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@gmail.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tmn1.net>
Amarjeet Anand <amarjeetanandsingh@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Open Source Used In IOS XR Software 7.6.1 9966

Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vanclueverttech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@gmail.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chsrmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@gmail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@gmail.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@gmail.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementska@gmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@gmail.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradopl@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Danish Dua <danishdua@google.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.mcc@gmail.com>
Darshon Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@dcheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@gmail.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <djjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemic@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Muraslimov <muraslimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@gmail.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@gmail.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Eric Tryzelaar <etryzelaar@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cc123 (384546) <buau.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @encal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennie (6499251) <mail@rhb.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jimmiaoluo (39730824) <jimmiaoluo@icloud.com>
GitHub User @jobrown (6345470) <msshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <ljghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Mats966 (28551465) <Mats966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_ii@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuannah (1298735) <yuannh415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebridge@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis2006@gmail.com>
Gordon Klaus <gklaus@users.noreply.github.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@greg.ca>
Gregoire Delatte <gregoire.delatte@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrovych <gregory.petrovych@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guiherme.garnier@gmail.com>
Guilherme Goncalves <guihermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume.charmes.net>
Guus Roos <guus-roos@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Tregui <gwenn.kaiz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@google.com>
Jacob Blain Christen <dweomer5@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jacob Walker <jacobwalker0814@gmail.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <cajka@redhat.com>
Jakub Kaczmarzyk <jakubk@mit.edu>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
Jamal Carvalho <jamal.a.carvalho@gmail.com>
James Aguilar <jagullar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Eady <jmeady@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <j1jatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Trenor <jtrenor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jf frederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <_@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jie Ma <jenius@outlook.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinski <jimmyzelinski@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joe hazzers@gmail.com>
Joe Henke <joe.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <lliggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@google.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Baum <joshbaum@google.com>
Josh Bleecker Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Crowgney <jrcrowgney@uw.edu>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judepereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digineo.de>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sammiquel <marcsammiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <nnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@gmail.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderregger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mibertschler@gmail.com>
Martin Garton <garton@gmail.com>
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Martin Hamrle <martin.hamrle@gmail.com>
Open Source Used In IOS XR Software 7.6.1 9991
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nusz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattrra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tguclaci78@gmail.com>
Tamir Duberstein <tamir@gmail.com>
Tao Qingyun <qingyunhua@gmail.com>
Tao Shen <shentaoskkying@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@gmail.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Buschnell, BSG <tbushnell@gmail.com>
Thomas de Zeeuw <thomasdezeew@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <veartop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vranchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask.google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhargoogle.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotsky <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@javins.net>
Walter Poupore <wpoupore@google.com>
Wander Laurson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0h.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <sfhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
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# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
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1.810 golang-snappy 0.0.1

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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.
*/

1.812 cryptsetup 2.3.2-r0

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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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If such an object file uses only numerical parameters, data
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1.819 google-api-go-client 0.29.0
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Alain Vongsouvanhalain <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
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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    (//|#) license that can be found in the LICENSE file.
`)

cnst 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)
}

1.820 d-bus 1.12.20

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Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
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James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
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1.829 x-net 0.0.0-20201031054903-ff519b6c9102

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1.830 python-six 1.14.0-r0

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1.831 i2c-tools 3.1

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1.835 libunistring 0.9.10-r0

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@page
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@var{one line to give the library's name and an idea of what it does.}

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

<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".

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

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

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

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

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for
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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.

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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.

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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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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
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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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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
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To apply these terms, attach the following notices to the library. It is
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"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
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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!

1.841 grep 2.19
1.841.1 Available under license:

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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.

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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.

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

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

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not
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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
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be optional: if the application does not supply it, the square
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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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# 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/@WBRSR1BZDhBFXQB6/>
  * 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 Kluvyer <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>
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  * 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.
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  * 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

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  * HTTPResponse.tell() for determining amount received over the wire

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

* Danilo @dbregn <https://dbregn.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.

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  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

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  * Clues to debugging problems with `cryptography` dependency in docs

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  * 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.

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  * IPv6 HTTPS proxy bugfix

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* 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.

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  * 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 `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

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

1.852 kubernetes-apimachinery 0.18.2
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1.853 go-sockaddr 1.0.2

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1.862 six 1.12.0

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

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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
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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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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
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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
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Just configure this file as the SSLCACertificateFile.#

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@(#) Sourcefile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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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ASN.1 library for Python

* [PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)(https://pypi.org/project/pyasn1)
* [Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)(https://pypi.org/project/pyasn1/)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.
That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        ),
        DefaultedNamedType('house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        ),
    )
```

```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
>>> 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
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```  
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```  
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the `pyasn1-modules` [repo](https://github.com/etingof/pyasn1-modules).

How to get `pyasn1`  
-----------------

The `pyasn1` package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
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.

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ASN.1 library for Python

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.. toctree::
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Abstract Syntax Notation One (ASN.1)

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>
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 it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>` or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

The PyASN1 software is distributed under 2-clause BSD 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.

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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 Albrecht <altmeier@atlas.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 isosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Pietre Brooks <Pietre.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
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
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 <sjob@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsvwp
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.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 <nrapple@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

References

1. mailto:taiko_abe@xurb.jp
2. mailto:mark_andrews@isc.org
3. mailto:altmeier@atlsoft.de
4. mailto:vbais@mailman1.intel.co
5. mailto:kirkwood@striderfm.intel.com
6. mailto:michael.barone@lmco.com
7. mailto:karl@owl.HQ.ileaf.com
8. mailto:greg.brackley@bigfoot.com
9. mailto:Marc.Brett@westgeo.com
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11. mailto:nelson@bolyard.me
12. mailto:Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:reg@dwn.com
14. mailto:clift@ml.csiro.au
15. mailto:casey@csc.co.za
16. mailto:Sven_Diethrich@trimble.COM
17. mailto:dundas@salt.jpl.nasa.gov
18. mailto:duwe@immd4.informatik.uni-erlangen.de
19. mailto:dennis@mrbill.canet.ca
20. mailto:jhay@icomtek.csir.co.za
21. mailto:davehart@davehart.com
22. mailto:neoclock4x@linum.com
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36. mailto:lindholm@ucs.ubc.ca
37. mailto:louie@ni.umd.edu
38. mailto:thorinn@diku.dk
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<ol>
<li><a href="mailto:takao_abe@xurb.jp">Takao Abe <takao_abe@xurb.jp></a> Clock driver for JJY receivers</li>
<li><a href="mailto:mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a> Leitch atomic clock controller</li>
<li><a href="mailto:altmeier@atlsoft.de">Bernd Altmeier <altmeier@atlsoft.de></a> hopf Elektronik serial line and PCI-bus devices</li>
<li><a href="mailto:bvais@mailman1.intel.com">Viraj Bais <vbais@mailman1.intel.com></a> and <a href="mailto:kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5</li>
<li><a href="mailto:michael.barone@lmco.com">Michael Barone <michael.barone@lmco.com></a> GPSVME fixes</li>
<li><a href="mailto:karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option</li>
<li><a href="mailto:greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</li>
<li><a href="mailto:Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver</li>
<li><a href="mailto:Piete.Brooks@cl.cam.ac.uk">Piete Brooks <Piete.Brooks@cl.cam.ac.uk></a> MSF clock driver, Trimble PARSE support</li>
<li><a href="mailto:nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete broadcast and crypto features in snntp</li>
<li><a href="mailto:Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca></a> IPv6 support</li>
<li><a href="mailto:reg@dwf.com">Reg Clemens <reg@dwf.com></a> Oncore driver (Current maintainer)</li>
<li><a href="mailto:clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock driver</li>
<li><a href="mailto:casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration</li>
<li><a href="mailto:Sven_Dietrich@trimble.COM">Sven Dietrich <sven_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.</li>
<li><a href="mailto:dundas@salt.jpl.nasa.gov">John A. Dundas III <dundas@salt.jpl.nasa.gov></a> Apple A/UX port</li>
<li><a href="mailto:duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de></a> Linux port</li>
<li><a href="mailto:dennis@mrbill.canet.ca">Dennis Ferguson <dennis@mrbill.canet.ca></a> foundation code for NTP Version 2 as specified in RFC-1119</li>
<li><a href="mailto:jhay@icomtek.csir.co.za">John Hay <jhay@icomtek.csir.co.za></a> IPv6 support and testing</li>
<li><a href="mailto:davehart@davehart.com">Dave Hart <davehart@davehart.com></a> General maintenance, Windows port interpolation rewrite</li>
<li><a href="mailto:neoclock4x@linum.com">Claas Hibbrecht <neoclock4x@linum.com></a> NeoClock4X clock driver</li>
<li><a href="mailto:glenn@herald.usask.ca">Glenn Hollinger <glenn@herald.usask.ca></a> GOES clock drivers</li>
<li><a href="mailto:iglesias@uci.edu">Mike Iglesias <iglesias@uci.edu></a> DEC Alpha port</li>
<li><a href="mailto:jagielski@jagubox.gsfc.nasa.gov">Jim Jagielski <jagielski@jagubox.gsfc.nasa.gov></a> A/UX port</li>
<li><a href="mailto:jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive
Open Source Used in IOS XR Software 7.6.1

- **Hans Lambermont** <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> (ntpsweep)
- **Poul-Henning Kamp** <phk@FreeBSD.ORG> (Oncore driver)
- **Frank Kardel** (driver overhaul)
- **Hans Lambermont** <Hans.Lambermont@nl.origin-it.com> (ntpsweep)
- **Poul-Henning Kamp** <phk@FreeBSD.ORG>
  - rewrote `<tt>ntpq</tt>`
- **Frank Kardel** (PARSE, STREAMS modules, support scripts, syslog cleanup, dynamic interface handling)
- **Johannes Maximilian Kuehn** <kuehn@ntp.org> (rewrote `<tt>sntp</tt>`)
- **William L. Jones** <jones@hermes.chpc.utexas.edu> (RS/6000 AIX modifications, HPUX modifications)
- **Dave Katz** <dkatz@cisco.com> (RS/6000 AIX port)
- **Craig Leres** <leres@ee.lbl.gov> (4.4BSD port, ppsclock, Magnavox GPS clock driver)
- **George Lindholm** <lindholm@ucs.ubc.ca> (SunOS 5.1 port)
- **Louis A. Mamakos** <louie@ni.umd.edu> (MD5-based authentication)
- **Lars H. Mathiesen** <thorinn@diku.dk> (adaptation of foundation code for Version 3 as specified in RFC-1305)
- **Danny Mayer** <mayer@ntp.org> (Network I/O, Windows Port, Code Maintenance)
- **David L. Mills** <mills@udel.edu> (Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36)
- **Wolfgang Moeller** <moeller@gwdg1.dnet.gwdg.de> (i386 svr4 port)
- **Jeffrey Mogul** <mogul@pa.dec.com> (ntptrace utility)
- **Tom Moore** <tmoore@fievel.daytonoh.ncr.com> (Bancomm refclock and config/parse code maintenance)
- **Kamal A Mostafa** <kamal@whence.com> (SCO OpenServer port)
- **Derek Mulcahy** <derek@toybox.demon.co.uk> and <d@hd.org> (ARCRON MSF clock driver)
- **Rob Neal** <neal@ntp.org> (Bancomm refclock and config/parse code maintenance)
- **Rainer Pruy** <Rainer.Pruy@informatik.uni-erlangen.de> (monitoring/trap scripts, statistics file handling)
- **Dirce Richards** <dirce@zk3.dec.com> (Digital UNIX V4.0 port)
- **Wilfredo Sánchez** <wsanchez@apple.com> (added support for NetInfo)
- **Nick Sayer** <mrapple@quack.kfu.com> (SunOS streams modules)
- **Jack Sasportas** <jack@innovativeinternet.com> (Saved a lot of space on the stuff in the html/pic/ subdirectory)
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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
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- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
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- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

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- 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.

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1.879 simplejson 3.17.0

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*/

package datatypes
type Legal_RegulatedWorkload struct {
    Entity

    Account *Account `json:"account,omempty" xmlrpc:"account,omempty"`

    AccountId *int `json:"accountId,omempty" xmlrpc:"accountId,omempty"`

    EnabledFlag *bool `json:"enabledFlag,omempty" xmlrpc:"enabledFlag,omempty"`

    Id *int `json:"id,omempty" xmlrpc:"id,omempty"`

    Type *Legal_RegulatedWorkload_Type `json:"type,omempty" xmlrpc:"type,omempty"`

    WorkloadTypeId *int `json:"workloadTypeId,omempty" xmlrpc:"workloadTypeId,omempty"`
}
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>>> aws_aws-sdk-go.aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6de46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6de46002
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>>> go-openapi_runtime-3b13ebbb46790d871d74a6c2450fa4b1280f90854
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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ad6262b5c4c4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
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>>> codegangsta/cli-master
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>>> tomb_v1-dd632973f1e7218eb1089048e0798e9ae7dceb8
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb
>>> tylerb_graceful-d7d7a205e779a4738ed38eda0671fff8bf6c965f14
>>> ugorjl_go_codec-708a42d246822925f38190a8d8c4e6b16a0e600c
>>> urfave/negroni-ccc4a14988428dcb944e6f17f4a4967b18624f2b
>>> urfave_cli_v1-0bddddeeeb06f50497d603c4ad7b20cfe685682f6
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>>> x_tools_go_astastutil-381149a2d6e58f319ccf04b6efc71e03a78bb868
>>> zenazn/goji-c05078ca81941f8e801bb3ddc0e6b86b7fdec893

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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3dd66f8e20acc33829c8ecb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26c99ae3d239e2fcb43432a2

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>>> 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
>>> libsoc-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> lssof-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssl-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> 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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>>> glib-2.52.1-3.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc/registry/storage/driver/s3-aws/s3_v2_signer.go
```

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Gocheck - A rich testing framework for Go

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> miekg_dns-ca336a1f95a6b89be9c250df26c7a41742eb4a6f

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75
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>>> nlopes_slack-f243c7602fdff906248fc1f165284daa4e4d2d09e

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>>> nsf_termbox-go-91bae1bb5fa9ee504905cebe7043fa30e92feaa3
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tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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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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   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
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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Since the original authors were generous enough to donate their work to the public domain, I feel compelled to match their generosity.

Tim Kientzle, February 2009.

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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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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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Email local part: ph10
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gcc-6.3.0.tar.bz2\gcc-6.3.0.tar\libiberty\testsuite\test-expandargv.c

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Written by Carlos O'Donell <carlos@codesourcery.com>

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>>> iproute2-4.10.0-3.ph2

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chkconfig:  2345 11 89
description: sets up CBQ-based traffic control

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>>> iptables-1.6.1-4.ph2

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iptables-1.6.1.tar.bz2\iptables-1.6.1.tar\iptables-1.6.1\extensions\libip6t_HL.c

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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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 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
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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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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.
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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
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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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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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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.

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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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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Factoring with Pollard's rho method.

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Test Socket Type

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

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

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

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

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

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

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

That's all there is to it!

---------SECTION 6: GNU Lesser General Public License, V3.0---------

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Version 3, 29 June 2007

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of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
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The "Minimal Corresponding Source" for a Combined Work means the
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based on the Application, and not on the Linked Version.

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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--------------- SECTION 7: Mozilla Public License, V2.0 ------------

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Version 2.0

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

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1.896 lz4 r127

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* *
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*/
/
*/
* arch/alpha/boot/bootpz.c
 *
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 *
* This file is used for creating a compressed BOOTP file for the
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 *
* based significantly on the arch/alpha/boot/main.c of Linus Torvalds
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Protocol Buffers for Go with Gadgets

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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
`,
        },
    }

<table>
<thead>
<tr>
<th>License Name</th>
<th>Quantity</th>
<th>Expiration date</th>
</tr>
</thead>
<tbody>
<tr>
<td>name1</td>
<td>10 nodes</td>
<td>2020-01-01</td>
</tr>
<tr>
<td>name2</td>
<td>20 nodes</td>
<td>2020-01-01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>

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

license: id2
name: name2
owner: owner2
components: compstring

// Custom Format
owner1
owner2
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
    }
    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: 20,
                    },
                },
                ComponentsString: "compstring",
            },
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:   "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
    }
    expectedJSONs := []map[string]interface{}{
        {
            "Owner": "owner1",
            "ComponentsString": "compstring",
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
        {
            "Owner": "owner2",
            "ComponentsString": "compstring",
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
    }
}

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: 20,
                    },
                },
                ComponentsString: "compstring",
            },
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:   "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
    }
    expectedJSONs := []map[string]interface{}{
        {
            "Owner": "owner1",
            "ComponentsString": "compstring",
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
        },
        {
            "Owner": "owner2",
            "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 {

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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{
        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"
)

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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{
            "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")
}

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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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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-- vile: txtmode file-encoding=utf-8
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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

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**1.911 iproute 3.16.0**

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1.913 curl 7.37.1
1.913.1 Available under license :

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" It is a proprietary protocol, reverse-engineered by clever peo-

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.60/curl-7-37-1-tar-
gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmlib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/tool_hugehelp.c

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:MaxApplZone();
:MoreMasters();
No license file was found, but licenses were detected in source scan.

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/version.h

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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
* /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_hugehelp.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.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_main.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_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_doswin.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_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_msg.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.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_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
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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
* /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_clicable.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_strdup.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_operate.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_sdecls.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_easyrcsrc.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_c_program.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_parsecfg.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
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With the given path(s):

```
* Found in path(s):
```

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```
* Found in path(s):
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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_convert.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_bname.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_panykey.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_main.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_panykey.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_util.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_bname.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_util.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-
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========================================================================

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

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

4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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which the executable runs, unless that component itself accompanies
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.928 urllib3 1.26.4

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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/@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

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
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  * Support for non-ASCII header parameters

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  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
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  * 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

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  * 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>
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  * 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 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`.

* Keichi 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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 */
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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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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</tr>
</thead>
<tbody>
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1.938 rardecode 1.1.0

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1.939 godbus 5.0.3

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

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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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Version 2, June 1991

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1.957 tdb 1.45.4
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   trivial database library

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*/
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#!/usr/bin/env python3
# Some simple tests for the Python bindings for TDB
# Note that this tests the interface of the Python bindings
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1.958 pcre 8.44-r0
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-----------------------------
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1.959 libnftnl 1.0.6

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.979 keyutils 1.5.9

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1.980 base-passwd 3.5.3

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1.982 go-sql-driver-mysql 1.5.0

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    # *
    # * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
    # */

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
AI Dossor (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. AI Dossor provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agec@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.cs.in.rising.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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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony - at - justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king - at - kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman - at - vvisions.com) (See CVS log)
Bruce Barr (schmoost - at - yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christian Engstrom (christian.engstrom - at - glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (spionage - at - yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg - at - cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan - at - nuffer.name)
Daniel Frey (d.frey - at - gmx.de, daniel.frey - at - aixigo.de)
Daniel Nuffer (dan - at - nuffer.name)
Darin Adler (darin - at - bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore - at - viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl - at - yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod - at - cs.rpi.edu, dgregor - at - cs.indiana.edu, doug.gregor - at - gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey - at - ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 - at - sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennady Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- g mail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jjarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Frel (frel -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larb -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequ - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Winternmantel (winternmantel -at- imes.mavt.ethz.ch, winternmantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
1.995 errors 29

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The of the start-stop-daemon

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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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using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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One common dilemma is that GPL[1]-licensed code is not allowed to be linked
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licensing is a problem for you, consider using GnuTLS or yassl
instead.

GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is
a problem for you, consider using OpenSSL instead. Also note that
GnuTLS itself depends on and uses other libs (libgcrypt and
libgpg-error) and they too are LGPL- or GPL-licensed.

yassl   http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is
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NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very
liberal and imposes no restrictions on any other library or part you
may link with.

zlib    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
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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
[3] = LGPL - GNU Lesser General Public License:
1.1014 grub2 2.00

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1.1016 x-time-rate 0.0.0-20190308202827-9d24e82272b4

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1.1017 pycrypto 2.6.1-5.ph2

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1.1018 glib 2.62.6

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1.1019 czmq 4.2.0-r0

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1.1021 e2fsprogs 1.43

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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
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:
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)
Open Source Used In IOS XR Software 7.6.1 12612

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

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

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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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.

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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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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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Julian Seward, jsward@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>.",
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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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
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;
}

1.1037 logrus 1.7.0
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```

```go
package cloud

import (
    "bytes"
    "io/ioutil"
)
```
```

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" {
            // 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
            }
        }
    }
}
```
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1.1043 lxml 3.6.4

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1.1052 go-bexpr 0.1.2

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That's all there is to it!

1.1055 protobuf 3.13.0
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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antonjoseph@gmail.com>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
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)

1.1056 opencensus 0.22.0

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1.1057 hashstructure 1.0.0

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1.1058 govmomi 0.18.0
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*/

package license

import (  
  "context"  
  "flag"  
  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/types"  
)
type assign struct {
*flags.ClientFlag
*flags.OutputFlag
*flags.HostSystemFlag
*flags.ClusterFlag

name string
remove bool
}

func init() {
cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}
func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }
    return
}
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

    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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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
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}
func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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*/

package 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()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info_LICENSEKEY != key {
    t.Fatalf("expect info_LICENSEKEY equal to %q; got %q", key, info_LICENSEKEY)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key: value}; got {key: %s, value: %s}", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info_LICENSEKEY equal to %q; got %q", key, la[1].LICENSEKEY)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}
len(labels), len(la[1].Labels))

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
t.Fatal("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 (  
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    "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 != "" {
        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,
    }
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
    *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 result
}
return cmd.WriteResult(licenseOutput(result))
}

# People who can (and typically have) contributed to this repository.
#
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#

Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
akutz <sakutz@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexbozhenko@fb.com>
Alvaro Miranda <kikitux@gmail.com>
amandahla <amanda.andrade@serpro.gov.br>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@vmware.com>
amit bezalel <amit.bezalel@hpe.com>
Andrew Chin <andrew@andrewtchin.com>
Anfernee Yongkun Gui <aguay@vmware.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
Aryeh Weinreb <aryehweinreb@gmail.com>
Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org>
Bruce Downs <bruceadowns@gmail.com>
Cdrick Blomart <cblomart@gmail.com>
Chris Marchesi <chrism@vanclueverttech.com>
Christian Hltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
Davide Agnello <dagnello@hp.com>
David Stark <dave@daviddark.name>
Deric Crago <deric.crago@gmail.com>
Doug MacEachern <dougm@vmware.com>
Eloy Coto <eloy.coto@gmail.com>
Eric Gray <egray@vmware.com>
Eric Yutao <eric.yutao@gmail.com>
Erik Hollensbe <github@hollensbe.org>
Fabio Rapposelli <fabio@vmware.com>
Fairaz Ahmed <ahmedf@vmware.com>
forkbomber <forkbomber@users.noreply.github.com>
Gavin Gray <gavin@infinio.com>
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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,
    }
    res, err := methods.RemoveLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}
func (m Manager) RemoveLicense(ctx context.Context, &LicenseKey string) error {
    req := types.RemoveLicense{
        LicenseKey: LicenseKey,
    };
    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: mapToKeyValues(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
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    };
    return am, nil
}
return &am, nil

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 {
        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

const 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 {
    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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    "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 nil
}

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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Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
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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\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()
}

#!/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 ".[].[] | 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" "$(get_key 00000-00000-00000-00000-00002 <<<${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 ".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
    }

    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
}

1.1059 busybox 1.23.1
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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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1.1062 x-text 0.3.3
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Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <sahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.githubusercontent.com>
Akhil Indurti <contact@akhilindurti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconsmereveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Yu <yuqiniying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahirro.com> <alberto.garcia.hierro@gmail.com>
Aleysa Sarai <cyphar@cyphar.com>
Aleksandar Dezlin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alexseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alejandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalex browne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.roedseth@appeartv.com>
Alexander Guz <kalimatata@gmail.com>
Alexander Kauer <alexander@affine.space>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialis <varialis@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Austin Clements <austin@gmail.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayanamist@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@gmail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <jdjadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercel <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Ziaiek <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Pospko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jubberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadina <jwangsadina@gmail.com>
Javier Kohen <jkohen@gmail.com>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jaycschwa.net>
Jean de Klerk <jdekl@gmail.com>
Jean-Andr Santoni <jeanandrsantoni@gmail.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@gmail.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrrjohnson@gmail.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eaias@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrillo Silin <silin@kyrillo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannnm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Hrabec <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbuco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <miki42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@appleby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msoolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gurasov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <ngenov@gmail.com>
Misty De Meo <mistydeleo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevda@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreayaz@gmail.com>
Muhammed Uluylol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <nastercactus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate Finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reilly Watson</td>
<td><a href="mailto:reillywatson@gmail.com">reillywatson@gmail.com</a></td>
</tr>
<tr>
<td>Reinaldo de Souza Jr</td>
<td><a href="mailto:junioriz@gmail.com">junioriz@gmail.com</a></td>
</tr>
<tr>
<td>Remi Gillig</td>
<td><a href="mailto:remigillig@gmail.com">remigillig@gmail.com</a></td>
</tr>
<tr>
<td>Rmy Oudompheng</td>
<td><a href="mailto:oudomphpe@phare.normalesup.org">oudomphpe@phare.normalesup.org</a>, <a href="mailto:remyoudompheng@gmail.com">remyoudompheng@gmail.com</a></td>
</tr>
<tr>
<td>Rens Rikkerink</td>
<td><a href="mailto:lkkerens@users.noreply.github.com">lkkerens@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Rhys Hiltner</td>
<td><a href="mailto:rhyss@justin.tv">rhyss@justin.tv</a></td>
</tr>
<tr>
<td>Ricardo Padilha</td>
<td><a href="mailto:ricardospadilha@gmail.com">ricardospadilha@gmail.com</a></td>
</tr>
<tr>
<td>Richard Barnes</td>
<td><a href="mailto:rlb@ipv.sx">rlb@ipv.sx</a></td>
</tr>
<tr>
<td>Richard Crowley</td>
<td>rcr Crowley.o rg</td>
</tr>
<tr>
<td>Richard Dingwall</td>
<td><a href="mailto:rdingwall@gmail.com">rdingwall@gmail.com</a></td>
</tr>
<tr>
<td>Richard Eric Gavaletz</td>
<td><a href="mailto:gavaletz@gmail.com">gavaletz@gmail.com</a></td>
</tr>
<tr>
<td>Richard Gibson</td>
<td><a href="mailto:richard.gibson@gmail.com">richard.gibson@gmail.com</a></td>
</tr>
<tr>
<td>Richard Miller</td>
<td><a href="mailto:miller.research@gmail.com">miller.research@gmail.com</a></td>
</tr>
<tr>
<td>Richard Musiol</td>
<td><a href="mailto:mail@richard-musiol.de">mail@richard-musiol.de</a>, nee <a href="mailto:lance@gmail.com">lance@gmail.com</a></td>
</tr>
<tr>
<td>Rick Arnold</td>
<td><a href="mailto:rickarnoldjr@gmail.com">rickarnoldjr@gmail.com</a></td>
</tr>
<tr>
<td>Rick Hudson</td>
<td><a href="mailto:rlb@golang.org">rlb@golang.org</a></td>
</tr>
<tr>
<td>Rick Sayre</td>
<td><a href="mailto:whorfin@gmail.com">whorfin@gmail.com</a></td>
</tr>
<tr>
<td>Rijnard van Tonder</td>
<td><a href="mailto:rvantonder@gmail.com">rvantonder@gmail.com</a></td>
</tr>
<tr>
<td>Riku Voipio</td>
<td><a href="mailto:riku.voipio@linaro.org">riku.voipio@linaro.org</a></td>
</tr>
<tr>
<td>Risto Jaakko Saarelma</td>
<td><a href="mailto:rsaarelma@gmail.com">rsaarelma@gmail.com</a></td>
</tr>
<tr>
<td>Rob Earhart</td>
<td><a href="mailto:earhart@google.com">earhart@google.com</a></td>
</tr>
<tr>
<td>Rob Norman</td>
<td><a href="mailto:rob.norman@infinitycloud.com">rob.norman@infinitycloud.com</a></td>
</tr>
<tr>
<td>Rob Phoenix</td>
<td><a href="mailto:rob@robpheonix.com">rob@robpheonix.com</a></td>
</tr>
<tr>
<td>Rob Pike</td>
<td><a href="mailto:r@golang.org">r@golang.org</a></td>
</tr>
<tr>
<td>Robert Daniel Kortschak</td>
<td><a href="mailto:dan.kortschak@adelaide.edu.au">dan.kortschak@adelaide.edu.au</a>, <a href="mailto:dan@kortschak.io">dan@kortschak.io</a></td>
</tr>
<tr>
<td>Robert Dinu</td>
<td><a href="mailto:r@varp.se">r@varp.se</a></td>
</tr>
<tr>
<td>Robert Figueiredo</td>
<td><a href="mailto:robfig@gmail.com">robfig@gmail.com</a></td>
</tr>
<tr>
<td>Robert Griesemer</td>
<td><a href="mailto:gri@golang.org">gri@golang.org</a></td>
</tr>
<tr>
<td>Robert Hencke</td>
<td><a href="mailto:robert.hencke@gmail.com">robert.hencke@gmail.com</a></td>
</tr>
<tr>
<td>Robert Iannucci</td>
<td><a href="mailto:iannucci@google.com">iannucci@google.com</a></td>
</tr>
<tr>
<td>Robert Obryk</td>
<td><a href="mailto:robryk@gmail.com">robryk@gmail.com</a></td>
</tr>
<tr>
<td>Robert Sesek</td>
<td><a href="mailto:rsesek@google.com">rsesek@google.com</a></td>
</tr>
<tr>
<td>Robert Snedegar</td>
<td><a href="mailto:roberts@google.com">roberts@google.com</a></td>
</tr>
<tr>
<td>Robert Stepanek</td>
<td><a href="mailto:robert.stepanek@gmail.com">robert.stepanek@gmail.com</a></td>
</tr>
<tr>
<td>Robert-Andr Mauchin</td>
<td><a href="mailto:zebob.m@gmail.com">zebob.m@gmail.com</a></td>
</tr>
<tr>
<td>Roberto Clapis</td>
<td><a href="mailto:robclap8@gmail.com">robclap8@gmail.com</a></td>
</tr>
<tr>
<td>Roberto Selbach</td>
<td><a href="mailto:roberto@selbach.ca">roberto@selbach.ca</a></td>
</tr>
<tr>
<td>Robin Eklind</td>
<td><a href="mailto:r.eklind.87@gmail.com">r.eklind.87@gmail.com</a></td>
</tr>
<tr>
<td>Rodolfo Carvalho</td>
<td><a href="mailto:rhcarvalho@gmail.com">rhcarvalho@gmail.com</a></td>
</tr>
<tr>
<td>Rodolfo Rodriguez</td>
<td>rodolfo@<a href="mailto:gibson@gmail.com">gibson@gmail.com</a></td>
</tr>
<tr>
<td>Rodrigo Moraes de Oliveira</td>
<td><a href="mailto:rodrigo.moraes@gmail.com">rodrigo.moraes@gmail.com</a></td>
</tr>
<tr>
<td>Rodrigo Rafael Monti Kochenburger</td>
<td><a href="mailto:divox@gmail.com">divox@gmail.com</a></td>
</tr>
<tr>
<td>Roger Pau Monn</td>
<td><a href="mailto:royger@gmail.com">royger@gmail.com</a></td>
</tr>
<tr>
<td>Roger Peppe</td>
<td><a href="mailto:rogrepepe@gmail.com">rogrepepe@gmail.com</a></td>
</tr>
<tr>
<td>Roland Illig</td>
<td><a href="mailto:roland.illig@gmx.de">roland.illig@gmx.de</a></td>
</tr>
<tr>
<td>Roland Shoemaker</td>
<td><a href="mailto:rolandshoemaker@gmail.com">rolandshoemaker@gmail.com</a></td>
</tr>
<tr>
<td>Roman Budnikov</td>
<td><a href="mailto:romanyx90@yandex.ru">romanyx90@yandex.ru</a></td>
</tr>
<tr>
<td>Roman Shchehin</td>
<td><a href="mailto:mrqtrtos@gmail.com">mrqtrtos@gmail.com</a></td>
</tr>
</tbody>
</table>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburford@gmail.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Harger <sharger@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergiy 'SnakE' Gromov <snake.scally@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Frolov <sfrolov@yandex.ru>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shengzhou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tae-su Pyo <pyotas@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aiuzu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhito Tsujikawa <tatsuhito.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
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Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <tavelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tffarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@Google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@Google.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <ypaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluan <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Weichiao Tang <tevic.tt@gmail.com>
Wembly G. Leach, Jr <wembley.gl@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willlemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deaffgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicelihood.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@google.com>
Yann Hodique <yhodique@gmail.com>
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Yann Salan <yannsalaun1@gmail.com>
Yao Zhang <lunaria21@gmail.com>
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1.1074 open-ldap 1.2.5

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   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

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   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

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1.1075 tftp-hpa 5.2
1.1075.1 Available under license:
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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.

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 *
* 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/
* __________________________________________________________-*
*/
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.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root
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.
%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
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  - 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

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  - startup as root with chroot to /tftpboot with early reversion to nobody
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  - update to tftp-hpa-0.14 (#14003).
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* 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.

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  - update to 0.16.

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  - update to 0.15.

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  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
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* 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
No license file was found, but licenses were detected in source scan.

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

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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.
"
"----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

/* ----------------------------------------------------------------------- *
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* 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/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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

" -*- nroff -*- --------------------------------------------------------- *
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ififi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carljohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@github.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <ceeo@linux.vnet.ibm.com>
Carlos Souza <carlosrshouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@github.com>
Catalin Patulea <catalinp@github.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatcenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conrado@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <ctom.lists@gmail.com>
Cosmos Nicolaou <cnicolau@gmail.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuhtlauac ALVARADO <cuhtlauac.alvarado@orange.com>
Cyril Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <daj@google.com>
Dan Johnson <computerdruid@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@gmail.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cormier <daniele@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingrands@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <dkerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <dan.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrrthjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fujimoto Kyosuke <kyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arth Arursson <gabrel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhous <rosenhous@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@gmail.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <grij19912@gmail.com>
Genevieve Luyt <genevieve.luvt@gmail.com>
Gengliang Wang <ltwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatcenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <gueffey@gmail.com>
George Gkirtso <ggirtso@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlos777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sncchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelnguys <gjredelnguys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajznene@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cputidle@gmx.de>
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Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@google.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Bustarret <jf@bustarret.com>
Jean-Francois Cantin <jf cantin@gmail.com>
Jean-Marc Eurin <jmeurin@gmail.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jdrzej Szczepaniak <jbszczepaniak@gmail.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@gmail.com>
Jeff R. Allen <jra@nella.org>  <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederick <jf frederick@gmail.com>
Jeremiah Harmsen <jeremiah@gmail.com>
Jeremy Banks <_@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@phnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jrob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jianing Yu <jnyu@gmail.com>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jspugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebperreira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jun Zhang <sim.zoumo@gmail.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Trukenmlller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@gmail.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Open Source Used In IOS XR Software 7.6.1

Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwill3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedínek <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.brgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowhispers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <uilsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'Snake' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <shokanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@gmail.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyasaundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohes YOSHIDA <syohes@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatso@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t1@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
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visible at http://tip.golang.org/CONTRIBUTORS.
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#
# Names should be added to this file as:
#     Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>
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1.1084 go.etcd.io-bbolt 1.3.5

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1.1085 modern-go-reflect2 1.0.1

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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"
}

1.1089 glib 2.48.2
1.1089.1 Available under license :

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Version 2, June 1991

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1.1093 cryptsetup 1.7.2
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Facebook Inc.
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Google Inc.
# Initial version authors:
Jeffrey Dean <jeff@google.com>
Sanjay Ghemawat <sanjay@google.com>

# Partial list of contributors:
Kevin Regan <kevin.d.regan@gmail.com>
Johan Bilien <jobi@litl.com>
Matthew Von-Maszewski <https://github.com/mattewvon> (Basho Technologies)
# 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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SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
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,  
pgnotice.NewWithSeverityf(strings.ToUpper(severity), "%s", msg),
  )

return tree.NewDInt(0), nil
}

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## All-Time External Contributors

330 contributors, 1609 commits

## By Year
### 2020

96 contributors, 333 commits

### 2019

48 contributors, 144 commits


### 2018

54 contributors, 120 commits


### 2017

73 contributors, 250 commits

Kuwahara (https://github.com/taku-k) (2), [Isaac Rogers](https://github.com/therealplato) (2),
Dave (https://github.com/xphonix) (2), [Yu Long](https://github.com/yuhit) (2), [Jason
Chu](https://github.com/1lann) (1), [CMajeri](https://github.com/CMajeri) (1), [Daniel
Barney](https://github.com/DBarney) (1), [Diego Siqueira](https://github.com/Disiqueira) (1),
[Eamon](https://github.com/EamonZhang) (1), [Rick Song](https://github.com/RickCSong) (1), [Thanatat
Tamtan](https://github.com/acoshift) (1), [Adam](https://github.com/adamyaqinglin) (1), [Alex
Gaynor](https://github.com/alex) (1), [Amos Bird](https://github.com/amosbird) (1), [amq](https://github.com/amq)
(1), [Evgeniy Vasilyev](https://github.com/aquilax) (1), [ctkou](https://github.com/ctkou) (1), [Andrew
Grigorev](https://github.com/ai-grad) (1), [George Papadrosou](https://github.com/giorgosp) (1), [Jason Aten,
(1), [Hayden James](https://github.com/hjames9) (1), [iswade](https://github.com/iswade) (1), [Jimmy
Larsson](https://github.com/jimlar) (1), [Jay Kominek](https://github.com/jkominek) (1), [Johan Brandhorst-
Satzkorn](https://github.com/johanbrandhorst) (1), [jonderry](https://github.com/jonderry) (1), [Jordan
Schalm](https://github.com/jordanschalm) (1), [Justin Pitts](https://github.com/justinpitts) (1), [Lee
Reilly](https://github.com/leereilly) (1), [master of light](https://github.com/livim) (1), [Mahmoud Al-
Qudsi](https://github.com/mqudsi) (1), [Marcus Grieb](https://github.com/neoeinstein) (1),
[phelam](https://github.com/phelam) (1), [Constantine Peresypkin](https://github.com/kitk) (1), [Ronan
Cherreau](https://github.com/rcherreau) (1), [Jonas Otten](https://github.com/saucercrowd) (1), [Simon
B.] (https://github.com/sesam) (1), [Dexter](https://github.com/skynamode) (1), [Syd](https://github.com/sydneyver) (1),
[Paul Colomiets](https://github.com/tailhook) (1), [Tim Lossen](https://github.com/tlossen) (1), [Christian
Meunier](https://github.com/lvemm) (1), [Xudong Zheng](https://github.com/xudongzheng) (1),
yangliang9004](https://github.com/yangliang9004) (1), [Zack Harley](https://github.com/zackharley) (1)

### 2016

42 contributors, 320 commits

[Enrique Ballest Peralta](https://github.com/eballeste) (89), [Kenji Kaneda](https://github.com/kkaneda) (88), [Paul
Steffensen](https://github.com/uptimeDBA) (34), [songhao](https://github.com/a6802739) (14), [Jingguo
Yao](https://github.com/yaojingguo) (12), [guanqun](https://github.com/guanqun) (9), [Seif
Lotfy](https://github.com/seiflotfy) (8), [Haines Chan](https://github.com/hainesc) (7), [Bogdan
Batog](https://github.com/bogdanbatog) (6), [Yan Long](https://github.com/yzmiming) (6), [Kenjiro
Nakayama](https://github.com/nak3) (5), [Thanakom Sangnetra](https://github.com/prideloki) (4), [Henry
Escobar](https://github.com/HenryEscobar) (2), [crackerplace](https://github.com/crackerplace) (2), [Jason E. Aten,
Ph.D.](https://github.com/glycerine) (2), [Roy Hvaara](https://github.com/hvaara) (2), [Marcus
Westin](https://github.com/marcsweatin) (2), [Mike Wiacek](https://github.com/mikewiacek) (2), [Gyeongwan
Koh](https://github.com/phyhalle) (2), [Teodor Pripoae](https://github.com/teodor-pripoae) (2), [Abhishek
Saha](https://github.com/AbhishekSaha) (1), [Dolf Schimmel](https://github.com/Freeaqingme) (1), [lex Vinyals
Valdepeas](https://github.com/alevinval) (1), [Andrew NS Yeow](https://github.com/ansyeow) (1), [Christian
Gati](https://github.com/cgati) (1), [Dharmesh Kakadia](https://github.com/dharmeshkakadia) (1), [Nopcea
Flavius](https://github.com/dominulnopcea) (1), [es-chow](https://github.com/es-chow) (1), [Daniel Q.
Kim](https://github.com/i9ue) (1), [Jeffrey Dallatezza](https://github.com/jsdt) (1), [Daniel
Theophanes](https://github.com/kardianos) (1), [Christian Koe](https://github.com/koe) (1), [Christos KK
Loverdos](https://github.com/loverdos) (1), [MaBo](https://github.com/ntMabo) (1), [Nathan
Johnson](https://github.com/nathanjohnson) (1), [Rushi Agrawal](https://github.com/rushiag) (1), [Aid
Idrizovic](https://github.com/aidrizable) (1), [Karl](https://github.com/theangryangel) (1), [Christian
Meunier](https://github.com/tlvenn) (1), [Tracy Scott](https://github.com/tracyscott) (1),
[xiaoyulei](https://github.com/xiaoyulei) (1), [yananzhi](https://github.com/yananzhi) (1)
### 2015

43 contributors, 308 commits


### 2014

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":"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


{"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
# Check that the notice is not printed any more.

```sql
send Query {"String": "DROP INDEX t_y_idx"}
```

until ReadyForQuery

```sql
{"Type":"CommandComplete","CommandTag":"DROP INDEX"}
{"Type":"ReadyForQuery","TxStatus":"I"}
```

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// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

package utilccl

import {
    "bytes"
    "context"
    "strings"
    "sync/atomic"
    "time"
    "github.com/cockroachdb/cockroach/pkg/base"
    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
    "github.com/cockroachdb/cockroach/pkg/server"
    "github.com/cockroachdb/cockroach/pkg/settings"
    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgcode"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
    "github.com/cockroachdb/cockroach/pkg/util/envutil"
    "github.com/cockroachdb/cockroach/pkg/util/timeutil"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
    "github.com/cockroachdb/redact"
}

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)
  }
}
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 */) == nil
}

// 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) {

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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) (*licensecl.License, error) {
    lic, err := licensecl.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 *licensecl.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 != licensecl.License_Enterprise {
    if expiration := timeutil.Unix(l.ValidUntilUnixSec, 0); at.After(expiration) {
        if !withDetails {
            return errEnterpriseRequired
        }
        licensePrefix := redact.SafeString(""
    switch l.Type {

case licensecl.License_NonCommercial:
    licensePrefix = "non-commercial ",

case licensecl.License_Evaluation:
    licensePrefix = "evaluation ",

return pgerror.Newf(pgcode.CCLValidLicenseRequired,
    "Use of %s requires an enterprise license. Your %slicens 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 {
        return nil
    }
}

// no match, so compose an error message.
if !withDetails {
    return errEnterpriseRequired
}
var matches bytes.Buffer
for i, c := range l.ClusterID {
    if i > 0 {
        matches.WriteString(",
    }
    matches.WriteString(c.String())
}
return pgerror.Newf(pgcode.CCLValidLicenseRequired,
    "license for cluster(s) %s is not valid for cluster %s",
    matches.String(), cluster.String(),
)
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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">
        {props.children}
      </div>
    </div>
  );
}
export default class NeedEnterpriseLicense extends React.Component{
  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 enterprise trial license and refer to this configuration guide.
            </p>
          </div>
          <a href={docsURL.startTrial} target="_blank" rel="noreferrer">
            GET A 30-DAY ENTERPRISE TRIAL
          </a>
        </div>
      </section>
    );
  }
}
Get a trial license
delivered straight to your inbox.

Activate the trial license with two simple SQL commands.

Follow this guide
to configure localities and locations.

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// licenses/APL.txt.

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.Infow(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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SOFTWARE.

// 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) {

}
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,omittable"`
    Type              License_Type
    `protobuf:"varint,3,opt,name=type,proto3,enum=cockroach.ccl.utilccl.licenseccl.License_Type" json:"type,omittable"`
    OrganizationName  string
    `protobuf:"bytes,4,opt,name=organization_name,json=organizationName,proto3" json:"organization_name,omittable"`
}

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, 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.RegisterFile("ccl/utilccl/licenseccl/license.proto", fileDescriptor_765066c8b2c94c63)
}

var fileDescriptor_765066c8b2c94c63 = []byte{
// 362 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x84, 0x91, 0x31, 0x8f, 0xda, 0x30, 0x1c, 0x63, 0x40, 0xad, 0xb0, 0x5a, 0x14, 0x22, 0x86, 0xa8, 0x83, 0x89, 0x50, 0x87, 0x48, 0xad, 0x1c, 0xa9, 0x4c, 0x5d, 0x81, 0x4a, 0x45, 0xaax, 0x18, 0xd2, 0x66, 0xe9, 0x12, 0x19, 0xc7, 0x0a, 0x16, 0x8e, 0x1d, 0x25, 0x36, 0x82, 0x7e, 0x8a, 0x7e, 0x2c, 0xb6, 0x63, 0x44, 0x37, 0xa0, 0x9b, 0x8f, 0x45, 0xe0, 0x90, 0xe8, 0x60, 0xbb, 0xc9, 0xcf, 0xa7, 0xe0, 0xf7, 0x7f, 0xf7, 0xc9, 0xf0, 0x33, 0xa5, 0x22, 0x30, 0x9a, 0x8b, 0xc8, 0x14, 0x9c, 0x32, 0x59, 0xb2, 0x3b, 0xb9, 0xf3, 0x42, 0x69, 0xe5, 0x54, 0xd1, 0x75, 0xa1, 0x08, 0x5d, 0x61, 0x4a, 0x05, 0x8e, 0xc6, 0xf1, 0x2d, 0xff, 0x69, 0x90, 0xda, 0x54, 0x35, 0xe1, 0xa0, 0x56, 0x17, 0x6e, 0xf4, 0xda, 0x82, 0xe0, 0x7f, 0xf5d, 0x42, 0x4e, 0xa0, 0x21, 0x15, 0xa6, 0xc4, 0xac, 0x88, 0x79, 0xe2, 0x02, 0x9a, 0xd0, 0xf7, 0x98, 0xc8, 0xc8, 0xc8, 0x8f, 0x86, 0xda, 0x3e, 0x69, 0x38, 0xe4, 0xb9, 0xe9, 0xc7, 0x2a, 0x06, 0x5e, 0x9f, 0x4a, 0x96, 0x37, 0x1d, 0xe4, 0xe0, 0xb4, 0xa5, 0x33, 0x30, 0x86, 0x27, 0x38, 0x8a, 0xe6, 0xb3, 0x3e, 0x34, 0xae, 0xe4, 0x2f, 0x03, 0xe7, 0xb3, 0xb0, 0x7b, 0x9d, 0x3d, 0x4f, 0xc9, 0x00, 0xe0, 0x36, 0x44, 0xf0, 0x24, 0x36, 0x52, 0x73, 0x11, 0x1b, 0xc9, 0xb7, 0x71, 0xc9, 0xa8, 0xdb, 0xf2, 0x80, 0xdf, 0xe0, 0xf8, 0x8d, 0x17, 0xda, 0x56, 0x24, 0xe9, 0xf6, 0x37, 0xda, 0xe0, 0xc4, 0x04, 0x76, 0xf4, 0xe2, 0xe7, 0xe6, 0xe6, 0xd0, 0xe0, 0xb3, 0x7e, 0xe0, 0xb1, 0xe6, 0xe6, 0xf9, 0x95, 0xe5, 0x0d, 0x4a, 0xf8, 0xc8, 0xe0, 0x67, 0x61, 0xe3, 0x3a, 0x5f, 0x60, 0x5f, 0x15, 0x29, 0x99, 0x19, 0xc0, 0x1f, 0xda, 0x5c, 0x9a, 0x58, 0x92, 0x8c, 0xb9, 0x9f, 0x0f, 0xf8, 0xdd, 0x0b, 0xe0, 0x37, 0x16, 0x24, 0x63, 0xa3, 0xef, 0xb0, 0x53, 0xa3, 0xe4, 0x1f, 0x7e, 0xc5, 0x28, 0x39, 0x35, 0x59, 0x6c, 0xda, 0xca, 0x89, 0xb8, 0x2d, 0xa7, 0x07, 0xe1, 0x0f, 0xa9, 0x59, 0x91, 0x17, 0xbc, 0x36, 0x68, 0x6e, 0x1b, 0x22, 0x4c, 0x03, 0xdb, 0xda, 0xc9, 0xd7, 0xfd, 0x33, 0xb2, 0xe6, 0x15, 0x02, 0x87, 0x0a, 0x81, 0x63, 0x85, 0x0c, 0x0f, 0xf8, 0xdd, 0x0b, 0xe0, 0x67, 0x64, 0x1d, 0xcf, 0xc8, 0xfa, 0x8b, 0x6f, 0x8b, 0xe2, 0xdf, 0x35, 0xdf, 0x30, 0xe7, 0x09, 0x00, 0x00, 0x0f, 0xff, 0x36, 0x56, 0x7c, 0xf6, 0xe6, 0x01, 0x00, 0x00,
}

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--
        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 iPEndx := len(m.ClusterID) - 1; iPEndx >= 0; iPEndx-- {
            size := m.ClusterID[iPEndx].Size()
            i -= size
            if _, err := m.ClusterID[iPEndx].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 > 0x7f {
        dAtA[offset] = uint8(v&0x7f | 0x80)
        v >>= 7
        offset++
    }
    return offset + uint64(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
            }
            if iNdEx >= l {
                return io.ErrUnexpectedEOF
            }
            wire = uint64(byte(dAtA[iNdEx]) & 0x7F) << (7 * shift)
            iNdEx += 1
            if wire == 0 { break }
        }
        switch wire {
        case 1:
            n, err := m.Unmarshal(dAtA[iNdEx:])
            if err != nil {
                return err
            }
            iNdEx += n
        default:
            return ErrInvalidWireType
        }
    }
    return nil
}
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, wire)
}
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
      }
      if iNdEx >= l {
        return io.ErrUnexpectedEOF
      }
      b := dAtA[iNdEx]
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
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 |= 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 {
        break
    }
    b := dAtA[iNdEx]
    stringLen |= int64(b&0x7F) << shift
    if b < 0x80 {
        break
    }
}
return ErrIntOverflowLicense
}
if iNdEx >= 1 {
    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 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
            }
            b := dAtA[iNdEx]
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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package utilccl
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, after, "", 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.
}
// mismatch.
(licensecl.License_Enterprise, clustersA, ts, clusterB, "", ts, "not valid for cluster"),
(licensecl.License_Enterprise, clustersB, ts, clusterA, "", ts, "not valid for cluster"),
(licensecl.License_Enterprise, append(clustersB, clusterA), ts, clusterA, "", ts, ""),
(licensecl.License_Enterprise, nil, ts, clusterA, "", ts, "license valid only for"),
(licensecl.License_Enterprise, nil, ts, clusterA, "tc-17", ts, ""),
}

var lic *licensecl.License
if tc.licType != -1 {
    s, err := (&licensecl.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) {
    t.Fatalf("%d: lic for %s to %s, checked by %s at %s at %s
\got %q", i,
    tc.grantedTo, tc.expiration, tc.checkCluster, tc.checkTime, 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) {
func check(lic *licenseccl.License, now timeutil.Now(), uuid uuid.UUID, ep, oper string, force bool) error {
    if force {
        return nil
    }
    if (lic.Type == licenseccl.License_Evaluation && now.Before(t0)) || lic.Type == licenseccl.License_Enterprise {
        return nil
    }
    return fmt.Errorf("Use of %s requires a %s license. Your %s expired on %s. If you're interested in getting a new license, please contact %s and we can help you out.", oper, lic.Type, lic.Type, now.Format("Jan 2, 2006"), subscriptions@cockroachlabs.com)
}

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package utilccl

import (
    "context"
    "testing"
    "time"
    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/testutils"
    "github.com/cockroachdb/cockroach/pkg/util/envutil"
    "github.com/cockroachdb/cockroach/pkg/util/timeutil"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/stretchr/testify/require"
)

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, _ := (&licensecl.License{
    ClusterID:         []uuid.UUID{idB},
    Type:              licensecl.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 licensecl'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 {
        t.Fatal(err)
    }
    err := checkEnterpriseEnabledAt(st, tc.checkTime, tc.checkCluster, "", "", true)
    if !testutils.IsError(err, tc.err) {
        l, _ := decode(tc.lic)
        t.Fatalf("%d: lic %v, update by %T, checked by %s at %s, got %q", i, l, updater, tc.checkCluster, tc.checkTime, err)
    }
}

func TestGetLicenseTypePresent(t *testing.T) {
    ctx := context.Background()
    for _, tc := range []struct {
        licenseType licensecl.License_Type
        expected    string
    }{
        {licensecl.License_NonCommercial, "NonCommercial"},
        {licensecl.License_Enterprise, "Enterprise"},
        {licensecl.License_Evaluation, "Evaluation"},
    }
Open Source Used In IOS XR Software 7.6.1  13479

```go
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.Fatal("%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(),
    }).Encode()

    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)
            }
        })
    }
}

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(),
    }).Encode()

    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)
            }
        })
    }
}
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.Error(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.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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// the License. You may obtain a copy of the License at
//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

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)
  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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@require '~styl/base/palette.styl'
PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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Version 2.1, February 1999

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the
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Name: tftp
Version: 5.2
Release: 1
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Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
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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=\$_bindir MANDIR=\$_mandir \install
install -m755 -d ${RPM_BUILD_ROOT}$_sysconfdir/xinetd.d/ ${RPM_BUILD_ROOT}$_sysconfdir/xinetd.d/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 <sjb@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <sjb@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-eRZHVQA5/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-eRZHVQA5/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

```
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```

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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-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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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/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-strcpy-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}/%{bindir}
mkdir -p ${RPM_BUILD_ROOT}/%{localstatedir}/lib/tftpboot
mkdir -p ${RPM_BUILD_ROOT}/%{unitdir}
make INSTALLROOT=${RPM_BUILD_ROOT} SBINDIR=%{bindir} 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

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/tftpboot
%{_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
  - fixed #666746 - Packaging mistake: confusing %doc files patched+unpatched
  - fixed 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

* 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):
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 * 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-5wBIp56C/tftp.spec

/* -*- c -*- ------------------------------------------------------------- *
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 * 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-5wBIp56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHVQA5/tftp-hpa-5.2/config.h

/* -*- 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-5wBIp56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHVQA5/tftp-hpa-5.2/tftpd/misc.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/tftpd/remap.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/tftpd/remap.h

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 * http://www.openbsd.org/
 * ----------------------------------------------------------------------- */

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commit e46782908e7026f27ef92de52e47ec372011616125
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 ../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
+ */
#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)
{
    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->thOpcode = htons(ERROR);
    out->thCode = htons(EUNDEF);

    len = strlen(msg) + 1;
    memset(buf, 0, 516);
    memcpy(out->thMsg, 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.thOpcode = htons(ACK);
    out.thBlock = htons(block);

    if (to) {
        if (sendto(sockfd, &out, 4, 0, &to->sa, SOCKLEN(to)) != 4)
            die("send_error: sendto: %s", strerror(-errno));
    } else {
        if (send(sockfd, &out, 4, 0) != 4)
            die("send_error: send: %s", strerror(-errno));
    }
}
+    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)
+{
+  _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] == '\r' && buf[i + 1] == '\n') {
+ wbuf[cnt++] = '\n';
+ ++i;
+ } else if (buf[i] == '0') {
+ /* 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(&pfd, 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");
+     }
+ } else {
+     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;
+
+ pkthbuf = calloc(pktsize, 1);
+ if (!pkthbuf)
+ 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;
+         }
+         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;
+     }
+     if (window++ >= windowsize || size != blocksize) {
+         send_ack(sockfd, server, block);
+         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;
+    }
+    while (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;
}
diff --git a/common/common.h b/common/common.h
new file mode 100644
index 0000000..31c1b7c
--- /dev/null
+++ b/common/common.h
@@ -0,0 +1,97 @@
/* Copyright (c) 2017 Jan Synáek
 * All rights reserved.
 */

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 * 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) \
    (((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
 +
+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 @@
 #ifndef TFTPSUBS_H
 #define TFTPSUBS_H
 
+ #include "common.h"
 #include "config.h"

-union sock_addr {
-    struct sockaddr     sa;
-    struct sockaddr_in  si;
-    #ifdef HAVE_IPV6
-        struct sockaddr_in6 s6;
-    #endif
-};
- 
- #define SOCKLEN(sock) \
- ((union sock_addr*)sock)->sa.sa_family == AF_INET ? \
- (sizeof(struct sockaddr_in)) : \
- (sizeof(union sock_addr))
-
#define HAVE_IPV6
#define SOCKPORT(sock) \
  ((union sock_addr*)sock)->sa.sa_family == AF_INET ? \
  diff --git a/tftp/extern.h b/tftp/extern.h
index 78474fc..dd0523f 100644
--- a/tftp/extern.h
+++ b/tftp/extern.h
@@ -34,7 +34,7 @@
#endif
#define 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

diff --git a/tftp/main.c b/tftp/main.c
index fc5a25..5a7d3a6 100644
--- a/tftp/main.c
+++ b/tftp/main.c
@@ -49,7 +49,7 @@
#include "extern.h"

-#define TIMEOUT /* secs between rexmt's */
+#define RTIMEOUT /* secs between rexmt's */
#define LBUFLEN200 /* size of input buffer */

struct modes {
@@ -82,7 +82,7 @@ int ai_fam_sock = AF_INET;
  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][-V][-l][-m mode] [-R port:port] 
+    "Usage: %s [-4][-6][-v][-V][-l][-m mode][-w size] [-R port:port] 
"[host [port]] [-c command]
",
#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]
",
#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 */
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;
 }

@@ -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\n", trace ? "on" : "off");
+ trace_opt = !trace_opt;
+ printf("Packet tracing %s\n", trace_opt ? "on" : "off");
}

void setverbose(int argc, char *argv[])
diff --git a/tftp/tftp.1.in b/tftp/tftp.1.in
index b41f7b5..1779a43 100644
--- a/tftp/tftp.1.in
+++ b/tftp/tftp.1.in
@@ -82,6 +82,9 @@ Default to verbose mode.
 ..B \-V
 Print the version number and configuration to standard output, then
 exit gracefully.
+.TP
+.B \-w\fP \fIwindow-size\fP
+Set the "window-size" TFTP option (RFC 7440) to the specified value.
..SH COMMANDS
Once
..B tftp
diff --git a/tftp/tftp.c b/tftp/tftp.c
index 9d15022..58ea597 100644
--- 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;
+extern int trace_opt;
extern int verbose;
-extern int rexmtval;
-extern int maxtimeout;
-
+/* TODO: Adjust when blocksize is implemented */
#define PKTSIZE  SEG_SIZE+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;
+ }
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;
+
+ void tftp_sendfile(int fd, const char *name, const char *mode, int windowsize)
+ {
- 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;
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);
- n = sendto(f, dp, size + 4, 0,
- &peeraddr.sa, SOCKLEN(&peeraddr));
- 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 windowsize: %d", v);
+             /* Assumes v > 0, it probably shouldn't. */
+             windowsize = 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 && windowsize != 1) {
+         windowsize = 1;
+         printf("client: server didn't negotiate windowsize, continuing with windowsize=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 (windowsize < 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;
+      }
+      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)
+void tftp_recvfile(int fd, const char *name, const char *mode, int windowsize)
{
  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");
}
#endif
/* size = write(fd, dp->th_data, n - 4); */
size = writeit(file, &dp, n - 4, convert);
if (size < 0) {
    nak(errno + 100, NULL);
    break;
}
amount += size;
} while (size == SEGSIZE);
abort:       /* ok to ack, since user */
ap->th_opcode = htons((u_short) ACK);       /* has seen err msg */
ap->th_block = htons((u_short) block);
(void)sendto(f, ackbuf, 4, 0, (struct sockaddr *)&peeraddr,
SOCKLEN(&peeraddr));
write_behind(file, convert);       /* flush last buffer */
fclose(file);
} 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;
    } else {
        if (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");
}

static void tpacket(const char *s, struct tftphdr *tp, int n)
{
    static const char *opcodes[] =
        { "#0", "RRQ", "WRQ", "DATA", "ACK", "ERROR", "OACK" };
    char *cp, *file;
    u_short op = ntohs(tp->th_opcode);

    if (op < RRQ || op > ERROR)
        printf("%s opcode=%x ", s, op);
    else
        printf("%s %s ", s, opcodes[op]);
    switch (op) {
-
- case RRQ:
-     n = 2;
-     file = cp = (char *)&(tp->th_stuff);
-     cp = strchr(cp, '\0');
-     printf("<file=%s, mode=%s>\n", file, cp + 1);
-     break;
-
- case DATA:
-     printf("<block=%d, %d bytes>\n", ntohs(tp->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)
     (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;
-         
-         (void) sig; /* Shut up unused warning */
-         
-         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

-#defineTIMEOUT 1000000 /* Default timeout (us) */
-#defineTRIES  6 /* Number of attempts to send each packet */
-#defineTIMEOUT_LIMIT (((1 +< TRIES)-1)

const char *__progname;
static int peer;
-static unsigned long timeout = TIMEOUT; /* Current timeout value */
-static unsigned long rexmtval = TIMEOUT; /* Basic timeout value */
-static unsigned long maxtimeout = TIMEOUT_LIMIT * TIMEOUT;
-static int timeout_quit = 0;
-static sigjmp_buf timeoutbuf;
static uint16_t rollover_val = 0;
+static int windowsize = 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_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 {
        {"timeout", set_timeout},
        {"utimeout", set_utimeout},
        {"rollover", set_rollover},
+        {"windowsize", 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);
-}

//#ifdef WITH_REGEX
static struct rule *read_remap_rules(const char *file)
{
    @@@ -229,64 +217,6 @@ static void pmtu_discovery_off(int fd)
    #endif
}

-/*
- * 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 -= (t1.tv_sec - t0.tv_sec) * 1000000
-                 + (t1.tv_usec - t0.tv_usec);
-            if (rv == 0)
-                continue;
-            if (rv < 0)
-                break;
-            if (flags & MSG_DONTWAIT)
-                continue;
-            if (flags & MSG_EOR)
-                break;
-            if (flags & MSG_EOF)
-                break;
-            if (flags & MSG_OOB)
-                break;
-            if (flags & MSG_PEEK)
-                break;
-            switch (flags & MSG_WAITSTAT)
-            { case MSG_DONTWAIT:
-                break;
-                case MSG_EOR:
-                case MSG_EOF:
-                case MSG_OOB:
-                case MSG_PEEK:
-                case 0:
-                    break;
-                default:
-                    break;
-            }
-            if (flags & MSG_INTERRUPT)
-                break;
-            if (flags & MSG_MERGED)
-                break;
-            if (flags & MSG_TIMESTAMP)
-                break;
-            if (flags & MSG_TRUNC)
-                break;
-            if (flags & MSG_XON)
-                break;
-            if (flags & MSG_XOFF)
-                break;
-            if (flags & MSG_WAITQ)
-                break;
-            break;
-        } while (1);
-    }
-    *timeout_us_p = timeout_left;
-    return rv;
-}

/*
 * Set sender mtu discovery to Off mode.
 */
static void pmtu_discovery_off(int fd)
{...
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;
    @ @ -325,7 +255,7 @ @ static int split_port(char **ap, char **pp)
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)
             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 @@ static int set_blksize2(uintmax_t *vp)
             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_rollover(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;
}
@@ -1301,8 +1229,20 @@ 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;
}
@@ -1343,11 +1283,11 @@ 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)) {
-                    if (p + optlen + retlen + 2 >= pktbuf + sizeof(pktbuf)) {
+                if (p + optlen + retlen + 2 >= pktbuf + sizeof(pktbuf)) {
                    nak(EOPTNEG, "Insufficient space for options");
                    exit(0);
                }
                
                memcpy(p, opt, optlen+1);
                p += optlen+1;
                memcpy(p, retbuf, retlen+1);
static int validate_access(char *filename, int mode, int access) {
    struct tftp_hdr *dp;
    struct tftp_hdr *ap; /* ack packet */
    static u_short block = 1; /* Static to avoid longjmp funny */
    u_short ap_opcode, ap_block;
    unsigned long r_timeout;
    int size, n;

    struct tftp_hdr *tp = (struct tftp_hdr *)pktbuf;
    unsigned short tp_opcode, tp_block;
    int retries = RETRIES;
    int timed_out = 0;
    int n, r = 0;
    (void) pf;

    set_verbose(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 tftp_hdr *)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;
- }
- }

- dp = r_init();
- do {
-   size = readit(file, &dp, pf->f_convert);
-   if (size < 0) {
-     nak(errno + 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);
+     n = recv_with_timeout(peer, pktbuf, sizeof(pktbuf), g_timeout);
if (n < 0) {
-       syslog(LOG_WARNING, "tftpd: read(ack): %m");
+       syslog(LOG_WARNING, "tftpd: recv: %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.
     */
    + 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);
-
} -if (!++block)
-    block = rollover_val;
- } while (size == segsize);
    tmp_p = (char *) inet_ntop(from.sa.sa_family, SOCKADDR_P(&from),
-tmpbuf, INET6_ADDRSTRLEN);
+    tmpbuf, INET6_ADDRSTRLEN);
    if (!tmp_p) {
        tmp_p = tmpbuf;
        strcpy(tmpbuf, "???");
    }
    syslog(LOG_NOTICE, "Client %s finished %s", tmp_p, filename);
-abort:
-    (void) fclose(file);
+    syslog(LOG_NOTICE, "Client %s finished %s", tmp_p, filename);
+abort:
+    if (timed_out || r == E_TIMED_OUT)
+        syslog(LOG_NOTICE, "Client %s timed out", tmp_p);
+    fclose(file);
}
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 */
    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->th_opcode = 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, "tftp: read: %m");
                int retries = RETRIES;
            }
        }
    }
}
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);
        } else {
            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 = recv_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-5wBi56C/tftp-rfc7440-windowsize.patch
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-5wBIp56C/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-eRZHVQA5/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

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*/

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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
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{bindir}/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-eRZHVQA5/tftp-hpa-5.2/tftp.spec.in

1.1098 pkg-browser 0.0.0-20180916011732-0a3d74bf9ce4

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1.1099 netbsd-resolv 2.24

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

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Protocol Buffers for Go with Gadgets

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

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# `/sys/license`

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"
  }
}
## 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

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

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mgo - MongoDB driver for Go

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    </div>
  </div>
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  </div>
</form>

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        </div>
      </div>
    </form>
  {{else}}
    <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
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      {{#info-table-row label="Valid from" value=startTime}}
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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.
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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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ecoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
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Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

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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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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

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

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1.1108  libcap 2.22

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1.1112 gofileutils 0.0.0-2017011115228-4d0c80011a0f

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1.1113 python-requests 2.19.1

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1.1116 sysklogd 1.5.0
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1.1122 coreos-semver 0.2.0

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1.1131 xz 5.2.4

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* GSS-API Programming Guide
* Part No: 816-1331-11
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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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==========================================================================

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

This license, the Lesser General Public License, applies to some specially designated software---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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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 \textit{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 \textit{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 \textit{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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@enumerate a
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@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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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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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.

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

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

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

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

@item
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link a "work that uses the Library" with the Library to produce a
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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:

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

@item
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@item
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@item
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@end enumerate

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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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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page
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@example
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@end example

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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Protocol Buffers for Go with Gadgets

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

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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/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
        {
            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
        }
    }

    for _, case := range cases {
        result := case.context.Write()  
        if result != case.expected {
            t.Errorf("expected %v, got %v", case.expected, result)
        }
    }
}
License Name: name1  Quantity: 10 nodes  Expiration date: 2020-01-01
License Name: name2  Quantity: 20 nodes  Expiration date: 2020-01-01

OWNER
owner1
owner2

OWNER
owner1
owner2

// Raw Format

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

license: id2
name: name2
owner: owner2
components: compstring

// Custom Format

owner1
owner2

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
    }
    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
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",
},
}

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()), 
"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",
},
}

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.ToString()), "\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
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
    }
    return nil, nil
}
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")
}

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
        })
    }
    return nil
}
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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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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1.1141 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.1142 bzip2 1.0.8

1.1143 systemd 244.5

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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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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1149 pierrec-lz4 2.5.2+incompatible
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1.1150 x-crypto

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### 1.1163 xz 5.1.3

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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
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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
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e) Verify that the user has already received a copy of these
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1.1171 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe
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fields:
  site: string
  author: root
1.1173 hashicorp-mdns 1.0.1

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1.1174 minicom 2.7.1-r0

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1.1177 futures cpython 3.9.1

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1.1182 libevdev 1.5.2

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1.1184 python-requests 2.21.0
1.1184.1 Available under license:

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-build@perl.org>.
" build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
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attach them to the start of each source file to most effectively convey
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"copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>
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   Gnomovision version 69, Copyright (C) 19xx name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

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

   Yoyodyne, Inc., hereby disclaims all copyright interest in the
   program `Gnomovision' (a program to direct compilers to make passes
   at assemblers) written by James Hacker.

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

That's all there is to it!
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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 1987.*\b(\d{4,})/i
  or die "Copyright statement not found in perl -v output \$output";

$year;
}

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1.1186 go-hclog 0.14.1
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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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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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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.1198 structs 1.1.0

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1.1207 containerd-console 1.0.1

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

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M. Welsh, 6 July 1996

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#
# 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)
Modified by Martin v. L"wis (martin@v.loewis.de)

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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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<th>Owner</th>
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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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---

# 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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# $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
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#
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#
# Some fixes to try to have correct line number on almost all nodes
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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Mersenne Twister
---------------

The :mod:'_random' module includes code based on a download from http://www.math.keio.ac.jp/ matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

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

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Sockets
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L. Peter Deutsch
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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
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- Arguments more compliant with python standard

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

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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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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/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 ",
  
}
<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>

// Table format

```plaintext
1: License Name: name1	Quantity: 10 nodes	Expiration date: 2020-01-01
2: License Name: name2	Quantity: 20 nodes	Expiration date: 2020-01-01
```

// Raw Format

```plaintext
license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
```
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",
                },
            },
            ComponentsString: "compstring",
        },
    },
}
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),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\nQuantity: 10 nodes\nExpiration 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",
}

out := &bytes.Buffer{}
er := 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.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")
    }

}
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.Wrap(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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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 {
        // Code for NewSubscriptionsFormat...
    }
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}}
`
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 {

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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1.1230 sudo 1.8.32

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code or patches to this implementation of sudo since I began
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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
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
cek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Dai, Wei
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Espie, Marc
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Farrell, Brian
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Fry singer, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guille m
Juhani, Timo
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Kadow, Kevin
Kosal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
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Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
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Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
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Rouillard, John P.
Rowe, William A., Jr.
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Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
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Spradling, Michael
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Stritzky, Tilo
Stroucken, Michael
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Todd, Giles
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Uhl, Robert
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Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.
Albuquerque, Pedro
Blttermann, Mario
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Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garcia-Fontes, Walter
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Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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package github

import (
    "context"
    "fmt"
    "net/http"
    "reflect"
    "testing"
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.Fprintf(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.Fprintf(w, `
{"key": "mit",
"name": "MIT"
}
`) })

license, _, err := client.Licenses.Get(context.Background(), "mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
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.
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
    }

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

    return license, resp, nil
}
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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modified object code on the User Product (for example, the work has been installed in ROM).

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1.1238 fontconfig 2.12.1
1.1238.1 Available under license :
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1.1239 cracklib 2.9.1
1.1239.1 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
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

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

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless the
applications are also GPL-2 which imo is just wrong. it isn't 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.

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 you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

I am sympathetic. Guys, what do you reckon?

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

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

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

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

Cheers,

Nalin

---

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

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

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

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

-mike

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1lCoCX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B711CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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   Version 2.1, February 1999

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^L

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

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1.1240 libsov 0.6.33
1.1240.1 Available under license:

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1.1242 bind 9.9.5
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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 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>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

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1.1249 go-jose 2.5.1

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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/@WBRSRIBZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bug fixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bug fixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bug fixes, 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>
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* 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.

* [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:

1.1261 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 59438b46471ae6cdfb761afc8e9beaf1e428a331. 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: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 b0a419de1..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-kmod-t-to-access.patch
No license file was found, but licenses were detected in source scan.

From 8343f97a265836ba1e1e2f4159f888c21e5cabe 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)

ave: 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_164877482.73/0/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 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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-------

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1.1262 vault 1.6.3
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Bipasa Chattopadhyay <bipasa@cs.unc.edu>
Eric Gavaletz <gavaletz@gmail.com>
Seon-Wook Park <seon.wook@swook.net>

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 */

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    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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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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

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Protocol Buffers for Go with Gadgets

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

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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 ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
    return &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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>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws-aws-sdk-go-aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acb5668c4c3deb4842615c4098eb61fb6b1e
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>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbffddde055a7b9e3ce271cfd83eca
>>> docker_libnetwork-fd27f22aaa35e3d5f788688f919d05bf744f431fd
>>> docker_libtrust-9c9bd2a1374f46905c66a4eb3694a130610ad62a
>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2e3f6a47
>>> go-openapi_errors-ff3f73aa224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-77f9f45308c19820f1a69e9a4cd965f496e0da10f
>>> go-openapi_jsonreference-36d33b5ef519efa5e563266901b180bf1a245a3db
>>> go_openapi_libs-6b66486231e079ee125c0f39994ed3d0c53399ed
>>> go-openapi_runtime-3b13e3b44790d871d74ac2450fa4b1280f90854
>>> go_openapi_spec-e072e23909d3a03736a6eb617d30f48369610447
>>> go_openapi_strfmt-0cb3db44c13bad3b3f56767b762a66751972a310cc
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>>> go-openapi_validate-035dcd74f1f61e83debe1c22950d5ec55566e7e4b2
>>> go_compute_metadata-cd0daa878ce66091060d2e7403ab672192b3e387e0
>>> go_internal-cd0da878ce66091060d2e7403ab621292b3e387e0
>>> golang_glog-24d4e6c41b44da8ac2ed8000737bc5eb5007998
>>> golang_groupcache_bcache-4e1c5567d7c2dd594ac7c3d342c2f5280b252d6
>>> syncutil_singleflight-7e08ca145dbf0e66a127c447b80e0e7914f3e4f9
>>> vdmerror_shackers-24df7f16a71a5d9cbe7390e4af667eef9e1b3
>>> vishvananda_netlink-4827a52b758233521878cb6ce59046b6d63f3457
>>> vishvananda_netns-604eaaf189ee8678c84174faac280def2394e878d25
>>> yaml_v2-4c78c975fe7c825c6d1466c42ebe594d1d6f3aba6

>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ade624b5ce4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d93b57e893999b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d93b57e893999b5
>>> api_go_googleapi-dfa61ae24628a06502b9c2805d93b57e893999b5
>>> armon_go-radix-4239f77079c7b5d1243b74736304ce8ddb60f2
>>> askevich_govvalidator-9699bab6b38bee2e02d3f8e899ecfc67656395e96
>>> azure_go-ansiterm-70b2c90b26017e829f1ed7c17f600c11858d8e
>>>boltb_bolt-b514920f8f2e0a68857e5a12774f385a59ae9f
>>> cekalti_backoff-b02f2b2ce11d7e6b9f728e1f7171b0fe2f65ef3
>>> client9_misspell-9a1fc2456ac9e8c9b4ebe9d005b6e7dace0d357f
>>> codegangsta/inject-33e0a1eb7c019ec3f8be049a826e2a403d3504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c748688fda9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
>>> deckarep_golang-set-1f0f4ff8d3f8ef0733822939721c3c5890f67554
>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
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>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-ess-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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>>> docker_libnetwork-fd27f22aaa35e3d5f88688f919d05b744f431fd

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>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998
```

Go support for leveled logs, analogous to https://code.google.com/google-glog

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```bash
>> golang_groupcache_lru-72d04f9fcdec7d3821820cc4a6f150eae553639a
```

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>> govmomi-v0.17.1
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Gocheck - A rich testing framework for Go

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Go-nfs-client version 0.1

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>>> mitchellh_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75
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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
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package short

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>>> curl-7.59.0-4.ph2

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Re-implemented by Vincent Sanders <vince@kyllikki.org> with extensive reference to original curl example code

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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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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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Written by: Philip Hazel
Email local part: ph10
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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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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
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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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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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>>> bash-4.4.12-3.ph2

error.c -- Functions for handling errors.

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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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/ 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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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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Version 2.1, February 1999

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its purpose remains meaningful.

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Version 3, 29 June 2007

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------------ SECTION 7: Mozilla Public License, V2.0 -----------

Mozilla Public License

Version 2.0

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mgo - MongoDB driver for Go

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BSON library for Go

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# `/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>
</table>

---
### Sample Request

```
```

### 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.

### 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 Request

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

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<LicenseInfo 
  @startTime={{model.startTime}} 
  @expirationTime={{model.expirationTime}} 
  @licenseId={{model.licenseId}} 
  @features={{model.features}} 
  @text={{model.text}} 
  @saveModel={{action "saveModel"}} 
  @model={{model}} 
/>

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

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
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https://github.com/google/go-github/ and
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// Copyright 2013 The go-github AUTHORS. All rights reserved.
//
// This package provides access to the GitHub API for managing
// licenses.

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  
  }  
  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
}

Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
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package license

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type Features uint

const FeatureNone Features = 0

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

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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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Protocol Buffers for Go with Gadgets

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

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1.1269 armon-go-metrics 0.3.4

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

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

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

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

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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--------

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

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

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash

-------

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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hitps://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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1.1287 libevdev 1.2.2

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1.1289 pyyaml 5.4.1

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1.1293 lvm2 2.03.06

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1.1312 libnss-mdns 0.14.1-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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That's all there is to it!

1.1313 gophercloud 0.1.0
1.1313.1 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 := (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](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 as it contains a lot of the repeated boilerplate 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
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a
defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.
Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

**Request a Code Review**

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

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md))
for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

```go
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 an Update request.
const UpdateRequest = `
{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        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 {
}

// ToResourceUpdateMap 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"
    "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)

    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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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

*/`

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
Feature Request

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

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

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

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

The following issues are examples of missing fields:

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

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

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

### Adding a Missing API Call

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

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

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

### Adding a Missing API Suite

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

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

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

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

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

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.
An example of how to create an issue for an entire project can be seen here:

* 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"`
}
```

... 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).

---

1.1314 grep 3.4-r0

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Version 3, 29 June 2007

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1.1320 libmnl 1.0.4-r0

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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.

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1.1322 lxml 3.2.5

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1.1328 zlib 1.2.8

1.1328.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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1.1329 mini-xml 2.9
1.1329.1 Available under license :

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September 18, 2010

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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
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:
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:$(BSDLIB_PIC_FLAG)

$(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:: $(BSDLIB_PIC_FLAG)
@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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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)
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
https://github.com/micheles/decorator/blob/4.0.0/documentation.rst
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:

```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
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities
Requires-Python: >=2.6, !=3.0.*, !=3.1.*

Found in path(s):
* /opt/cola/permits/1175342946_1644319359.09/0/python2-decorator-4.4.2-1-any-pkg-tar-xz/usr/lib/python2.7/site-packages/decorator-4.4.2-py2.7.egg-info/PKG-INFO

1.1339 go-cfclient 0.0.0-20190201205600-f136f9222381
1.1339.1 Available under license:

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1.1340 docker 19.03.15-ce+git99e3ed89195c4e551e87aad1e

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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
```
<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>

```
1: License Name: name1
   Quantity: 10 nodes
   Expiration date: 2020-01-01
2: License Name: name2
   Quantity: 20 nodes
   Expiration date: 2020-01-01
```

```
// Raw Format

license: id1
   license: id2
   name: name1
   owner: owner1
   components: compstring
   license: id2
   name: name2
   owner: owner2
   components: compstring
```

```
// 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),
  },
  "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
            }
        }
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIDHeader,
        "ProductRatePlan": productRatePlanHeader,
    }
    return nil
}
"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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limitations under the License.

import (  
"context"
"crypto/hmac"
"crypto/sha256"
"encoding/base64"
"encoding/json"
"fmt"
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{
            "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.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.Wrap(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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1.1342 zeromq 4.2.5

1.1342.1 Available under license:

wepoll - epoll for Windows
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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

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

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

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

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

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

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

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

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

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

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==================================
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https://github.com/google/go-github/ and
https://github.com/digitalocean/godo

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Dave Cheney
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Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev
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#

Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
akutz <sakutz@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexbozhenko@fb.com>
Alvaro Miranda <kikitux@gmail.com>
amandahla <amanda.andrade@serpro.gov.br>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@vmware.com>
amit bezalel <amit.bezalel@hpe.com>
Andrew Chin <andrew@andrewtchin.com>
Anfernee Yongkun Gui <agui@vmware.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
Aryeh Weinreb <aryehweinreb@gmail.com>
Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org>
Bruce Downs <bruceadowns@gmail.com>
Cdiric Blomart <cbломart@gmail.com>
Chris Marchesi <chrism@vanclueverttech.com>
Christian Hltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
Davide Agnello <dagnello@hp.com>
David Stark <dave@davidstark.name>
Deric Crago <deric.crago@gmail.com>
Doug MacEachern <dougm@vmware.com>
Eloy Coto <eloy.coto@gmail.com>
Eric Gray <egray@vmware.com>
Eric Yutao <eric.yutao@gmail.com>
Erik Hollensbe <github@hollensbe.org>
Fabio Rapposelli <fabio@vmware.com>
Faiyaz Ahmed <ahmedf@vmware.com>
forkbomber <forkbomber@users.noreply.github.com>
Gavin Gray <gavin@infinio.com>
Gavrie Philipson <gavrie.philipson@elastifile.com>
George Hicken <ghicken@vmware.com>
Gerrit Renker <Gerrit.Renker@ctl.io>
gthombare <gthombare@vmware.com>
Hasan Mahmood <mahmoodh@vmware.com>
Henrik Hodne <henrik@travis-ci.com>
Isaac Rodman <isaac@eyz.us>
Ivan Porto Carrero <icarrero@vmware.com>
Jason Kincl <jkincl@gmail.com>
Jeremy Canady <jcanady@jackhenry.com>
jeremy-clerc <jeremy@clerc.io>
Joo Pereira <joaoordp@gmail.com>
Jorge Sevilla <jorge.sevilla@rstor.io>
leslie-qiwa <leslie.qiwa@gmail.com>
Louie Jiang <jiangl@vmware.com>
Marc Carmier <mcarmier@gmail.com>
Matthew Cosgrove <matthew.cosgrove@dell.com>
Mevan Samaratunga <mevansam@gmail.com>
Nicolas Lamirault <nicolas.lamirault@gmail.com>
Omar Kohl <omarkohl@gmail.com>
Parham Alvani <parham.alvani@gmail.com>
Pieter Noordhuis <pnoordhuis@vmware.com>
runcher.mei <runcher.mei@gmail.com>
S.alar Onur <conur@vmware.com>
Sergey Ignatov <sergey.ignatov@jetbrains.com>
Steve Purcell <steve@sanityinc.com>
Takaaki Furukawa <takaaki.frkw@gmail.com>
tanishi <tanishi503@gmail.com>
Ted Zlatanov <tzz@lifelogs.com>
Thibaut Ackermann <thibaut.ackermann@alcatel-lucent.com>
Trevor Dawe <trevor.dawe@gmail.com>
Vadim Egorov <vegorov@vmware.com>
Volodymyr Bobyr <pupsua@gmail.com>
Witold Krecicki <wpk@culm.net>
Yang Yang <yangy@vmware.com>
Yuya Kusakabe <yuya.kusakabe@gmail.com>
Zach Tucker <ztucker@vmware.com>
Zee Yang <zeey@vmware.com>

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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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>>> aws_sdk-goaws-master
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>>> syncutil_singleflight-7ce08ca145db0e66a127c447b800ee7914f3e4f9
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>>> yam1_v2-4c78c975fe7c825c6d1466c42be594d1d6f3aba6

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>>> airbrake_gobrake_v2-c9d51ade624b5cc4c1bf8de730a0af4878ffe2d
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>>> naoina_denco-9a2ba0e24214bac00382f4a501b131b2e04c75
>>> nlopes_slack-f243c7602fd9062488cf1165284da4e4d2d09e
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>>> puerkitobio_purell-d6961651c1cf7d54da38047a152d2c2a749d
>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0a0f0c
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>>> x_crypto_curve25519-728b753d0135da860145a38e6f43ff55779c5c2
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>>> x_crypto_nacl_secretbox-728b753d0135da860145a38e6f43ff55779c5c2
>>> x_crypto_poly1305-728b753d0135da860145a38e6f43ff55779c5c2
>>> x_crypto_salsa20-salsa-728b753d0135da860145a38e6f43ff55779c5c2
>>> x_oauth2-1611bb46e67abe64a71ecc5c3ae67f1cbbc2b921
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
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>>> e2fsprogs-1.43.4-2.ph2
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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https://code.google.com/google-glog

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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> codegangsta_cli-master

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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Go-nfs-client version 0.1

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+build appengine

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868.tar
tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/third_party/typescript/typescript.js

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.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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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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-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-11.ph2

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Cryptographic attack detector for ssh - source code

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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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>>> linux-esx-4.9.154-1.ph2

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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
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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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mkinstalldirs --- make directory hierarchy
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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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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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/ 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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/ 

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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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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:

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute
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may not distribute the Library at all. For example, if a patent
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the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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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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13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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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

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>

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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 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!

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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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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