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1.552 go-uuid v0.0.0-20131221200532-179d4d0c4d8d
1.552.1 Available under license
1.553 libcap-ng 0.7.7-3+b1
1.553.1 Available under license
1.554 pcre 8.39-3
1.554.1 Available under license
1.555 xz 5.2.5-r1
1.555.1 Available under license
1.556 arptables 1.8.6
1.556.1 Available under license
1.557 goprotobuf 1.3.2
1.557.1 Available under license

1.558 go-etcd v2.0.0+incompatible

1.558.1 Available under license

1.559 strutil v1.0.0

1.559.1 Available under license

1.560 mathutil v1.0.0

1.560.1 Available under license

1.561 deepcopy v0.0.0-20170603005431-491d3605edfb

1.561.1 Available under license

1.562 github.com/dnaeon/go-vcr v1.0.1

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1.563 golex v1.0.0

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1.564 netlib v0.0.0-20190331212654-76723241ea4e

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1.565 bigfft v0.0.0-20170806203942-52369c62f446

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1.566 libnsl 2.0.0

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1.567 vim 8.2.4836-r0

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1.568 six 1.15.0

1.568.1 Available under license

1.569 jwt-go 3.2.0+incompatible

1.569.1 Available under license

1.570 fsnotify 1.4.7

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1.571 python-setuptools 51.3.3

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1.572 prometheus-client 1.0.0

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1.574 libuuid 2.37.4-r0

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1.575 procfs 0.0.2

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1.579 urfave-cli 1.20.0
1.579.1 Available under license
1.580 libc-utils 0.7.2-r3
1.580.1 Available under license
1.581 golang 1.10
1.581.1 Available under license
1.582 golang 1.14.5
1.582.1 Available under license
1.583 busybox 1.32.1-r9
1.583.1 Available under license
1.584 ca-certificates 20220614-r0
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1.585 gnutls 3.7.1-r1
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1.586 zlib 1.2.12-r3
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1.587 ca-certificates-bundle 20220614-r0
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1.588 ncurses-libs 6.2_p20210109-r1
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1.589 ssl-client 1.32.1-r9
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1.595 packaging 20.9
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1.596 python-setuptools 56.0.0
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1.597 k8s-io-apimachinery v0.0.0

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1.598 k8s-io-api v0.0.0

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1.599 curl 7.79.1-r3

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1.600 libcurl 7.79.1-r3

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1.607 libxml2 2.9.14-r2

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1.608 github.com/google/uuid v1.1.1

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1.609 openssl 1.1.1s-r0

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1.610 x-sys v0.0.0-20190422165155-953cdadca894

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1.611 x-sync v0.0.0-20190911185100-cd5d95a43a6e

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1.613 lib-crypto 1.1.1s-r0

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1.614 libssl 1.1.1s-r0

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1.617 go-codec v0.0.0-20181204163529-d75b2dcb6bc8
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1.619 libgcrypt 1.7.6-2+deb9u3
1.619.1 Available under license
1.620 util-linux 2.29.2-1+deb9u1
1.620.1 Available under license
1.621 gnupg 2.1.18-8~deb9u4
1.621.1 Available under license
1.622 zlib 1.2.8.dfsg-5
1.622.1 Available under license
1.623 lz4 0.0~r131-2+b1
1.623.1 Available under license
1.624 dash 0.5.8-2.4
1.624.1 Available under license
1.625 ustr 1.0.4-6
1.625.1 Available under license
1.626 gzip 1.6-5+b1
1.626.1 Available under license
1.627 shadow 4.4-4.1
1.627.1 Available under license
1.628 berkeley-db 5.3.28-12+deb9u1
1.628.1 Available under license
1.629 acl 2.2.52-3+b1
1.629.1 Available under license
1.630 python 3.8.15-r0
1.630.1 Available under license
1.631 gogo-protobuf 1.2.1
1.631.1 Available under license
1.632 dgrijalva-jwt-go 3.2.0+incompatible
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1.633 etcd (devel)
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1.634 sed 4.4-1
1.634.1 Available under license
1.635 libsepol 2.6-2
1.635.1 Available under license

1.636 iproute 4.9.0-1+deb9u1

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1.637 libgpg-error 1.26-2

1.637.1 Available under license

1.638 expat 2.2.10-r8

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1.639 github.com/daviddengcn/go-colortext v0.0.0-20160507010035-511bcaf42ccd

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1.640 github.com/golangplus/testing v0.0.0-20180327235837-af21d9c3145e

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1.660 [gliderlabs-ssh v0.1.1](#)
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1.661 [golang.org/x/perf v0.0.0-20180704124530-6e6d33e29852](#)
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1.662 [grpc.go4.org v0.0.0-20170609214715-11d0a25b4919](#)
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1.663 [anmitsu-go-shlex v0.0.0-20161002113705-648efa622239](#)
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1.669 [github.com/lucas-clemente/quic-clients v0.1.0](#)
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1.671 [github.com/mvdan/xurls v1.1.0](#)
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1.673 [github.com/heketi/tests v0.0.0-20151005000721-f3775cbcefd6](#)
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1.675.1 Available under license
1.676 github.com/marten-seemann/qtls v0.2.3
1.676.1 Available under license
1.677 github.com/mholt/certmagic v0.6.2-0.20190624175158-6a42ef9fe8c2
1.677.1 Available under license
1.678 bitbucket.org/bertimus9/systemstat v0.0.0-20180207000608-0eeff89b0690
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1.679 cheekybits/genny v0.0.0-20170328200008-9127e812e1e9
1.679.1 Available under license
1.680 github.com/bifurcation/mint v0.0.0-20180715133206-93c51c6ce115
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1.681 github.com/naoina/toml v0.1.1
1.681.1 Available under license
1.682 github.com/libopenstorage/openstorage v1.0.0
1.682.1 Available under license
1.683 github.com/caddyserver/caddy v1.0.3
1.683.1 Available under license
1.684 goglob v0.0.0-20170128012129-256dc444b735
1.684.1 Available under license
1.685 github.com/thecodeteam/goscaleio v0.1.0
1.685.1 Available under license
1.686 github.com/lucas-clemente/aes12 v0.0.0-20171027163421-cd47fb39b79f
1.686.1 Available under license
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1.687.1 Available under license
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1.689 json iterator go 1.1.7
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1.691 spf13-afero 1.1.2
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1.692 olekukonko-tablewriter 0.0.0-20170122224234-a0225b3f23b5
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1.694 x-time 0.0.0-20190308202827-9d24e82272b4
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1.696 spf13-jwalterweatherman 1.0.0
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1.697 clientmodel 0.0.0-20190812154241-14fe0d1b01d4
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1.698 google-golang-org-grpc 1.26.0
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1.699 coreos-go-systemd 0.0.0-20190321100706-95778dfbb74e
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1.700 spf13-cast 1.3.0
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1.701 gopkg-in-cheggaaa-pb-v1 1.0.25
1.701.1 Available under license
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1.703 gopkg-in-yaml-v2 2.2.4
1.703.1 Available under license
1.704 go-uber-org-atomic 1.4.0
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1.705 spf13-cobra 0.0.3
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- 1.712 x-tools v0.0.0-20190821162956-65e3620a7ae7**
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- 1.730 gopkg.in/mcuadros/go-syslog.v2 v2.2.1**
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- 1.753 github.com/microsoft/hcsshim v0.0.0-20190417211021-672e52e9209d**
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- 1.763 kubernetes/cluster-bootstrap v0.0.0**
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- 1.764 x-sys v0.0.0-20180909124046-d0be0721c37e**
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1.770 tools v0.0.1-2019.2.2

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1.771 code-generator v0.0.0

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1.772 github.com/checkpoint-restore/go-criu v0.0.0-20181120144056-17b0214f6c48

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1.773 github.com/xlab/handysort v0.0.0-20150421192137-fb3537ed64a1

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1.774 golang.org/x/build v0.0.0-20190927031335-2835ba2e683f

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1.779 github.com/opencontainers/selinux v1.3.1-0.20190929122143-5215b1806f52

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1.780 containerd-typeurl v0.0.0-20190228175220-2a93cfde8c20

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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Files: passwd.master, group.master

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1.2 coreutils 8.26-3

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This is the Debian GNU/Linux packaged version of the GNU core utilities.

This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:
<ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz>

This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:

- * added Debian GNU/Linux package maintenance system files
- * at times, bug fixes awaiting inclusion in the upstream source

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1.3 debian-archive-keyring 2017.5

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1.4 findutils 4.6.0+git+20161106-2

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1.6 hostname 3.18+b1

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1.9 debconf 1.5.61

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1.10 debianutils 4.8.1.1

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1.11 sensible-utils 0.0.9+deb9u1

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1.13 libidn 1.33-1

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1.16 perl 5.24.1-3+deb9u5

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

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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repository: <http://github.com/dagolden/module-build/>
version: 3

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

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Version 1, February 1989

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<one line to give the program's name and a brief idea of what it does.>
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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



```

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

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

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

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

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v

```

```
{

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

$year;
}
```

1.17 ncurses 6.0+20161126-1+deb9u2

1.18 base-files 9.9+deb9u8

1.19 adduser 3.115

1.19.1 Available under license :

This package was first put together by Ian Murdock <imurdock@debian.org> and was maintained by Steve Phillips <sjp@cvfn.org> from sources written for the Debian Project by Ian Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph <sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.20 glibc 2.24-11+deb9u4

1.20.1 Available under license :

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1.23 cobra 0.0.3

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```

```
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```

```
func initGpl2() {
    Licenses["gpl2"] = License{
        Name:      "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `
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```
`  
,  
}  
}  
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```

package cmd

```
func initBsdClause3() {  
    Licenses["bsd"] = License{  
        Name:      "NewBSD",  
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},  
        Header: `All rights reserved.
```

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}
}

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package cmd

```
func initGpl3() {
```

```
    Licenses["gpl3"] = License{
```

```
        Name: "GNU General Public License 3.0",
```

```
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
```

```
        Header: `
```

```
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```

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```
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}
```

}

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```
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```

```
package cmd
```

```
func initApache2() {  
    Licenses["apache"] = License{  
        Name:      "Apache 2.0",  
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},  
        Header: `Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may  
obtain a copy of the License at
```

```
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```
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    Text: `
```

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```
`  
,  
}
```

```

}
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```

```

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```

```

package cmd

```

```

func initMit() {
    Licenses["mit"] = License{
        Name:      "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `
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}  
}  
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```

package cmd

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

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```
`  
}  
}
```


1.24 golang-protobuf-extensions 1.0.1

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1.25 mitchellh-mapstructure 1.1.2

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1.26 jwalterweatherman 1.0.0

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1.27 pflag 1.0.3

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1.28 speakeasy 0.1.0

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1.29 cast 1.3.0

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1.30 zlib 1.2.11-r3

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include/bsd/timeconv.h

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man/bitstring.3bsd

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src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
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1.38 govmomi v0.20.3

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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"

    "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
    }
}

```

```

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
/*

```

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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
    // 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))
}
#!/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"
}

get_label() {
    govc license.ls -json | jq -r ".[] | select(.LicenseKey == \"$1\") | .Labels[] | select(.Key == \"$2\") | .Value"
}

get_nlabel() {
    govc license.ls -json | jq ".[] | select(.LicenseKey == \"$1\") | .Labels[].Key" | wc -l
}

@test "license.add" {
    esx_env

    verify_evaluation

    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 -r ".Name")"
}
```

```
@test "license.decode" {
  esx_env
```

verify_evaluation

```
key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}
```

```
@test "license.label.set" {
  vcsim_env
```

key=00000-00000-00000-00000-00000

```
assert_equal 0 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
```

```
run govc license.label.set $key foo bar
assert_success
```

```
assert_equal 1 "$(get_nlabel $key)"
assert_equal bar "$(get_label
$key foo)"
```

```
run govc license.label.set $key biz baz
assert_success
run govc license.label.set $key foo bar2
assert_success
```



```

assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}

```

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package simulator

import (

"github.com/vmware/govmomi/object"

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/soap"

"github.com/vmware/govmomi/vim25/types"

)

// EvalLicense is the default license

var EvalLicense = types.LicenseManagerLicenseInfo{

LicenseKey: "00000-00000-00000-00000-00000",

EditionKey: "eval",

Name: "Evaluation Mode",

Properties: []types.KeyAnyValue{

{

Key: "feature",

Value: types.KeyValue{

Key: "serialuri:2",

Value: "Remote virtual Serial Port Concentrator",

},

},

{

Key: "feature",

Value: types.KeyValue{

Key: "dvs",

Value: "vSphere Distributed Switch",

```

    },
    },
    },
}

```

```

type LicenseManager struct {
    mo.LicenseManager
}

```

```

func NewLicenseManager(ref types.ManagedObjectReference)
object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
}

```

```

if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
}

```

```

return m
}

```

```

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
}

```

```

for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
        body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        return body
    }
}
}

```

```

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:    req.Labels,
})

```

```

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

```

```

return body
}

```

```

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
}

```

```

}

for i, license := range m.Licenses {
    if
    req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key: req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}

```

```

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func
(m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId:    req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

```

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*/

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/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type label struct {  
    *flags.ClientFlag  
}  
  
func init() {  
    cli.Register("license.label.set", &label{})  
}  
  
func (cmd *label) Register(ctx context.Context, f *flag.FlagSet)  
{  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
```

```
cmd.ClientFlag.Register(ctx, f)
}
```

```
func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}
```

```
func (cmd *label) Description() string {
    return `Set license labels.`
}
```

Examples:

```
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey`'
}
```

```
func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
}
```

```
m := license.NewManager(client)
```

```
if f.NArg() != 3 {
    return flag.ErrHelp
}
```

```
req := types.UpdateLicenseLabel{
    This:    m.Reference(),
    LicenseKey: f.Arg(0),
    LabelKey: f.Arg(1),
    LabelValue: f.Arg(2),
}
```

```
_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}
/*
```

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*/

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
vcid := c.Client.ServiceContent.About.InstanceUuid

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 := govmmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
    if err != nil {
        t.Fatal(err)
    }
}

```

```

}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) !=
len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d",
        len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
        info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q",
        key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d",
        len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
        la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {

```

```

t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}
}
# People who can (and typically have) contributed to this repository.
#
# This script is generated by contributors.sh
#

```

```

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*/

package license

```
import (  
    "context"  
    "flag"  
  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
)
```

```

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

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

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

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

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

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

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {

```

```

    return err
}

result = append(result, license)
}

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

```

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```
*/
```

```
package license
```

```
import (  
    "context"  
    "strconv"  
    "strings"
```

```
  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/types"  
)
```

```
  
type Manager struct {  
    object.Common  
}
```

```
  
func NewManager(c *vim25.Client) *Manager {  
    m := Manager{  
        object.NewCommon(c, *c.ServiceContent.LicenseManager),  
    }  

```

```
    return  
    &m  
}
```

```
  
func mapToKeyValueSlice(m map[string]string) []types.KeyValue {  
    var r []types.KeyValue  
    for k, v := range m {  
        r = append(r, types.KeyValue{Key: k, Value: v})  
    }  
    return r  
}
```

```
  
func (m Manager) Add(ctx context.Context, key string, labels map[string]string)  
(types.LicenseManagerLicenseInfo, error) {  
    req := types.AddLicense{  
        This:    m.Reference(),  
        LicenseKey: key,  
        Labels:   mapToKeyValueSlice(labels),  
    }  
}
```

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

```

    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

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

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:    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, 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"  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"  
  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type assigned struct {  
    *flags.ClientFlag  
    *flags.OutputFlag  
  
    id string  
}  
  
func init() {  
    cli.Register("license.assigned.ls", &assigned{})  
}  
  
func (cmd *assigned) Register(ctx  
    context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)  
  
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
    cmd.OutputFlag.Register(ctx, f)  
  
    f.StringVar(&cmd.id, "id", "", "Entity ID")  
}  
  
func (cmd *assigned) Process(ctx context.Context) error {  
    if err := cmd.ClientFlag.Process(ctx); err != nil {  
        return err  
    }  
    if err := cmd.OutputFlag.Process(ctx); err != nil {  
        return err  
    }
```

```

}
return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

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

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ',
    0)
    fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

```

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 wallclockbuilder
 dansouza

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*/

package license

import (

"fmt"

"io"

"os"

"text/tabwriter"

"github.com/vmware/govmomi/vim25/types"

)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {

tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)

fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")

for _, v := range res {

fmt.Fprintf(tw, "%s\t", v.LicenseKey)

fmt.Fprintf(tw, "%s\t",

v.EditionKey)

fmt.Fprintf(tw, "%d\t", v.Used)

fmt.Fprintf(tw, "%d\t", v.Total)

fmt.Fprintf(tw, "\n")

}

return tw.Flush()

}

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*/

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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```
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
}

```

1.39 capnslog 0.0.0-20180928190104-399ea9e2e55f

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1.40 go-humanize v1.0.0

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1.41 jq 1.6-r1

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1.45 libc 2.24-11+deb9u4

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

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*/

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```
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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

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

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

<http://sourceforge.net/projects/e2fsprogs>

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

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

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the 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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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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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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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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1.47 lua 5.2.4-r7

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1.48 runc v1.0.0-rc10

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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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1.49 grpc-gateway 1.9.5

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1.50 properties 1.8.1

1.50.1 Available under license :

goproperties - properties file decoder for Go

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1.51 go-grpc-prometheus 1.2.0

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1.52 go-runewidth 0.0.2

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1.53 bolt v1.3.1

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1.54 pb 1.0.25

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1.55 tablewriter 0.0.0-20170122224234-a0225b3f23b5

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1.56 xiang90-probing 0.0.0-20190116061207-43a291ad63a2

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1.57 go-humanize 0.0.0-20171111073723-bb3d318650d4

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1.58 astp v1.0.0

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1.59 gogo-protobuf v1.3.1

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1.60 lintpack v0.5.2

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1.68 protoc-gen-validate v0.1.0

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1.69 sirupsen-logrus v1.4.2

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1.72 levenshtein v1.0.1

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1.77 xz 5.2.2-1.2+b1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<http://tukaani.org/xz/lists.html>

Source:

<http://tukaani.org/xz>

<http://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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1.81 pcre 8.44-r0

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1.85 bzip2 1.0.8-r1

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1.86 fstrm 0.6.0-r1

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```
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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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@end smallexample
```

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```
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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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

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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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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.92 jansson 2.13.1-r0

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1.93 libtasn 4.16.0-r1

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

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Version 3, 29 June 2007

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The

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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=====
```

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1.94 clockwork v0.1.0

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Clockwork - a scheduler process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app
deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your
web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker)
to schedule recurring work at particular times or dates. For example,
refreshing feeds on an hourly basis, or send reminder emails on a nightly
basis, or generating invoices once a month on the 1st.

Example

Create schedule.rb:

```
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }

every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run

it with the clockwork binary:

```
$ clockwork schedule.rb
```

Or run directly with Ruby:

```
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>),

[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),

[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),

or

[Resque](<http://github.com/blog/542-introducing-resque>). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'clockwork'
include Clockwork
```

```
require
'stalker'
include Stalker
```

```
every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'
```

```
require 'clockwork'
include Clockwork
```

```
every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

In production

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app

servers and one database), your app machines might have the following process topography:

- * Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
- * Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [http://github.com/bvandenbos/resque-scheduler](http://github.com/bvandenbos/resque-scheduler)(resque-scheduler)

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<http://github.com/adamwiggins/clockwork>

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- * /adamwiggins-clockwork-v0-1-0-0-g596af5c-tar-gz/adamwiggins-clockwork-596af5c/README.md

1.95 units v0.0.0-20151022065526-2efee857e7cf

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1.96 lua 5.3.6-r0

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```

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1.97 liboping 1.10.0-r0

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1.98 multiarch-support 2.24-11+deb9u4

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1.100 go-toml 1.2.0

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1.102 idna 2.10

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"""

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"""

```
import io, sys
from setuptools import setup
```

```

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
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            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()

```

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1.103 urllib3 1.26.2

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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

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

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

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

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

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

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

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

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

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

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

- * Martin von Gagern <Martin.vGagern@gmx.net>

- * Support for non-ASCII header parameters
- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts
- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire
- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality
- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module
- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors
- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations
- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage
- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs
- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)
- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection
- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.
- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation
- * Aaron Meurer
<asmeurer@gmail.com>
- * Added Url.url, which unparses a Url
- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture
- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.
- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration
- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.
- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.
- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite
- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.
- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with `cryptography` dependency in docs
- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.
- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.
- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix
- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.
- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.
- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.
- * Evan Meagher <https://evanmeagher.net>

- * Bugfix related to `memoryview` usage in PyOpenSSL adapter
- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance
- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.
- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.
- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported
- * David Foster <http://dafoster.net/>
- * Ensure order of request and response headers are preserved.
- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme
- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.
- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.
- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.
- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist
- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package
- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- * Tim Burke <tim.burke@gmail.com>

- * Stop buffering entire deflate-encoded responses.
- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.
- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring
- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.
- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>

- * Remove Authorization header
regardless of case when redirecting to cross-site
- * James Meickle <<https://permadeath.com/>>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.
- * Jorge Lopez Silva <<https://github.com/jalopezsilva>>
- * Added support for forwarding requests through HTTPS proxies.
- * Benno Rice <benno@jeamland.net>
- * Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
- * Keiichi Kobayashi <abok.1k@gmail.com>
- * Rename VerifiedHTTPSConnection to HTTPSConnection
- * Himanshu Garg <garg_himanshu@outlook.com>
- * DOC & LICENSE Update
- * Hod Bin Noon <bin.noon.hod@gmail.com>
- * Test improvements
- * Chris Olufson <tycarac@gmail.com>
- * Fix for connection not being released on HTTP redirect and response not preloaded
- * [Bastiaan Bakker] <<https://github.com/bastiaanb>>
- * Support for logging session keys
via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
- * [Ezzeri Esa] <<https://github.com/savarin>>
- * Ports and extends on types from typeshed
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

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1.104 golang-protobuf-extensions v1.0.1

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1.105 libpkit 0.23.22-r0

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1.106 x-crypto v0.0.0-20190308221718-c2843e01d9a2

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1.123 golang-mock v1.3.1

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// sed do eiusmod tempor incididunt ut labore et dolore magna  
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.  
//  
  
// Code generated by MockGen. DO NOT EDIT.  
// Source: input.go  
  
// Package empty_interface is a generated GoMock package.  
package empty_interface  
  
import (  
    gomock "github.com/golang/mock/gomock"  
)  
  
// MockEmpty is a mock of Empty interface  
type MockEmpty struct {  
    ctrl    *gomock.Controller  
    recorder *MockEmptyMockRecorder  
}  
  
// MockEmptyMockRecorder is the mock recorder for MockEmpty
```

```

type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return
    m.recorder
}

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```

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copyright_file=mock_copyright_header

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type Empty interface{}

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1.130 mwitkow-go-contrack v0.0.0-

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1.134 logfmt v0.0.0-20140226030751-b84e30acd515

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Go package for parsing (and, eventually, generating) log lines in the logfmt style.

See <http://godoc.org/github.com/kr/logfmt> for format, and other documentation and examples.

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1.141 x-time v0.0.0-20190308202827-9d24e82272b4

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1.142 go-uber-org-multierr v1.1.0

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1.143 gopkg-in-alecthomas-kingpin-v2 v2.2.6

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1.144 go-uber-org-zap v1.10.0

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1.145 coreos-go-semver v0.2.0

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1.146 coreos-etcd v3.3.10+incompatible

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1.147 template v0.0.0-20160405071501-a0175ee3bccc

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1.148 golang-mock v1.1.1

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Please keep the list sorted.

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//
// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface
```

```
import (
```

```

gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
    ctrl    *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
{
    return m.recorder
}

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

```

1.149 websocket v1.4.0

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1.152 stretchr-testify v1.4.0

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1.153 gopkg-in-yaml-v2 v2.2.8

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1.154 bash 5.1.0-r0

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1.155 uuid v1.1.1

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1.156 errors v0.8.0

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1.157 gopkg-in-yaml-v2 v2.2.2

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1.158 idna 3.1

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1.159 pax-utils 1.2.8-r0

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Texts being @var{list}, and with the Back-Cover Texts

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@end group

@end smallexample

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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1.164 keyutils 1.6.3-r0

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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.

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

d) If a facility

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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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
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be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
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@subheading 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 effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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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 modified work must itself be a software library.

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

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You must

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

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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

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

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

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

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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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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 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.

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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.

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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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.

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
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```

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```
@example
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```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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If distribution of object code is made by offering access to copy

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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

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The

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1.166 protobuf-c 1.3.3-r4

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1.167 protobuf 3.13.0-r2

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* Small optimizations to Python serialization.

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* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- * HP-UX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

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

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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

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

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1.168 json-c 0.15-r1

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1.169 py3-urllib 1.26.2-r1

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

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

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

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

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- * 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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- * 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.
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 - * Various bugfixes and test improvements.
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 - * Correct six.moves conflict
 - * Fixed pickle support of some exceptions
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 - * 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
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 - * Fixed a race condition
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 - * Added abstraction for granular control of request fields
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 - * 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

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- * 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
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- * Added Url.url, which unparses a Url

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

- * Benjamin 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 <tomecek@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
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- * 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.
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- * Erik Rose <erik@mozilla.com>
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- * Wolfgang Richter <wolfgang.richter@gmail.com>
 - * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
 - * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
 - * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
 - * Update appveyor tox setup to use the 64bit python.

- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

- * Jorge Lopez Silva <https://github.com/jalopezsilva>
- * Added support for forwarding requests through HTTPS proxies.

- * Benno Rice <benno@jeamland.net>
- * Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.

- * Keiichi Kobayashi <abok.1k@gmail.com>

* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>

* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>

* Test improvements

* Chris Olufson <tycarac@gmail.com>

* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <<https://github.com/bastiaanb>>

* Support for logging session keys

via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <<https://github.com/savarin>>

* Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.170 wget 1.21.1-r1

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1.182 cmux v0.1.4

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#  
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Dmitri Shuralyov <shurcool@gmail.com>  
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1.183 check v1.0.0-20180628173108-788fd7840127

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1.189 gotool v1.0.0

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// Package misspell corrects commonly misspelled English words in source files.
package misspell

// Legal provides licensing info.

const Legal = `

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1.191 audit 2.6.7-2

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1.197 cdebconf 0.227

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CDebConf includes ideas and code from:

debconf - The original, de facto, perl implementation

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1.198 e2fsprogs 1.43.4~WIP.2017.01.30-1

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

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;'/'\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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

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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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Gadi Oxman, August 1995

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```
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```

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```
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```

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

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Theodore Ts'o
23-June-2007

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```

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

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

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

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1.199 musl 1.2.2-r1

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

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

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

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

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

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.

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

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

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

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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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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

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When a "work that uses the Library" uses material from a header file

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

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

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

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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b) Use a suitable shared library mechanism for linking with the

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

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1.205 libpcap 1.10.0-r0

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1.206 libevent 2.1.12-r1

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1.207 lumberjack v2.0.0

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```
{
  "$schema": "../../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../../dist/ngworker/lumberjack",
  "lib": {
    "entryFile": "src/index.ts"
  },
  "assets": ["/schematics/**/*.json"]
}
```

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1.208 fsnotify v1.4.7

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1.209 gax-go v2.0.4

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1.210 x-text 0.3.3

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1.211 zap 1.10.0

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1.212 ini 1.51.0

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1.213 py3-appdirs 1.4.4-r1

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1.214 grpc-go 1.26.0

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1.215 go-yaml 2.2.4

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1.216 py3-chardet 4.0.0-r0

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1.217 py3-idna 3.1-r0

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1.218 py3-ordered-set 4.0.2-r0

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1.221 x-net v0.0.0-20180906233101-161cd47e91fd

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1.222 py3-pysocks 1.7.1-r1

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1.223 musl 1.2.2-r2

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1.224 x-oauth2 v0.0.0-20190604053449-0f29369cfe45

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1.230 ethtool 5.10-r0

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1.235 x-net 0.0.0-20190813141303-74dc4d7220e7

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1.236 groupcache v0.0.0-20160516000752-02826c3e7903

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1.237 sqlite 3.34.1-r0

1.237.1 Available under license :

```
# Contributor: Kiyoshi Aman <adelie@aerdan.vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-regexp-pattern-license
_pkgreal=Regexp-Pattern-License
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=3.4.0
pkgrel=0
pkgdesc="Perl module for regex-matching legal licenses"
url="https://metacpan.org/pod/Regexp::Pattern::License"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures
perl-test-regexp-pattern perl-try-tiny"
checkdepends="perl-test-requires"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_pkgreal}-v${pkgver}.tar.gz"
buildid="$srcdir/${_pkgreal}-v${pkgver}"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
```

```

make
}

check() {
    make test
}

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

sha512sums="5524535f8eebe6cc2ce2065bae1f726b9a2717c34262df2ddd9106464dcfbaeb67eb310679bb636e72866
9f17041e4f101c7fb241a8e07a6cf3dc6fb3ae88e12
    Regexp-Pattern-License-v3.4.0.tar.gz"
/*
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* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*/
# Maintainer: Adelie Platform Group <adelie-devel@lists.adelielinux.org>
pkgname=bsd-compat-headers
pkgver=0.7.1
pkgrel=1
pkgdesc="Compatibility files for building BSD software"
url=" "
arch="noarch"
options="!check" # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
depends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h
"

```



```

package() {
    mkdir -p "$pkgdir"
    case "$CLIBC" in
        musl)
            install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
            install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
            install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
            ;;
        esac
    }

```

```

sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13
204254fd5830afb566624e1f298f4d6b58216013c28 sys-cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 sys-queue.h
07cb70f2f0ddb31e23dd913c6f561fc9885667c5803fdf3a559676c99d08834b4104589bacb5d17b4a0b379c68c81a1cf
3173832b3da33a7b936fa7b93706844
sys-tree.h"
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```

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Hwaci
6200 Maple Cove Lane
Charlotte, NC 28269
USA

A template copyright release is available in PDF or HTML. You can use this release to make future changes.

see <http://www.sqlite.org/copyright.html>

Maintainer:

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=6

pkgdesc="Library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0+"

depends=""

makedepends=""

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart-lgpl/2.3/libart-lgpl-\$pkgver.tar.bz2"

builddir="\$srcdir"/libart-lgpl-\$pkgver

```
prepare() {  
    default_prepare  
    update_config_sub  
}
```

```
build() {  
    ./configure \
```

```
--build=$CBUILD \  
--host=$CHOST \  
--prefix=/usr  
make  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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Contributor: Kiyoshi Aman <adelie@aerdan.vulpine.house>

Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>

```

pkgname=perl-software-license
_pkgreal=Software-License
_author=LEONT
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.103014
pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
url="https://metacpan.org/pod/Software::License"
arch="noarch"
license="Artistic-1.0-Perl"
depends="perl perl-data-section perl-text-template perl-try-tiny"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
buildid="$srcdir/${_pkgreal}-${pkgver}"

```

```

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

```

```

check() {
    make test
}

```

```

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

```

```

sha512sums="8012f9d3e8671bdcba52f6790f6cd2f6a0510883bb40115c222c8c685aed6697ba33b3f9df8d853841cd
2eef0806d919c9038b6ba7b1057f475b3b63457069d

```

```

    Software-License-0.103014.tar.gz"

```

```

# Contributor: Kiyoshi Aman <adelie@aerdan.vulpine.house>

```

```

# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>

```

```

pkgname=perl-string-copyright
_pkgreal=String-Copyright
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.003006

```

```

pkgrel=0
pkgdesc="Perl module for normalizing copyright text"
url="https://metacpan.org/pod/String::Copyright"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-exporter-tiny perl-number-range"

```

```

makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

check() {
    make test
}

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

sha512sums="7852d96cbe465dde14b4c093f77374b530967412ef95a98703fe838511e405ea9744e4dbfa314bc5a33fc
23b160d8a4866654ad60da1bfb07853263f1c11cd3f
String-Copyright-0.003006.tar.gz"

```

1.238 cpp 10.2.1__pre1-r3

1.238.1 Available under license :

```

/* Exported functions from alias.c
   Copyright (C) 2004-2020 Free Software Foundation, Inc.

```

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Version 3, 29 June 2007

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1.239 pam 1.1.8-3.6

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1.240 selinux 2.6-3+b3

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1.241 apt 1.4.9

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1.242 bzip2 1.0.6-8.1

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

1.243 elfutils 0.168-1

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1.246 xgb v0.0.0-20160522181843-27f122750802

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Gocheck - A rich testing framework for Go

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1.256 jsonpatch v4.9.0+incompatible

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1.257 go-proxy v0.0.0-20180725130230-947c36da3153

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1.258 githubcomgooglegofuzz v1.1.0

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1.259 context v1.1.1

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1.260 go-querystring v1.0.0

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1.261 martian v2.1.0+incompatible

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1.262 go-github v17.0.0+incompatible

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```

```
package github
```

```
import (  
    "context"  
    "fmt"  
)
```

```

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    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://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
(s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    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://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

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

    return license, resp, nil
}

```

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import (  
    "context"  
    "fmt"  
    "net/http"  
    "reflect"  
    "testing"  
)
```

```
func TestRepositoryLicense_marshal(t *testing.T) {  
    testJSONMarshal(t, &RepositoryLicense{}, "{}")
```

```
    rl := &RepositoryLicense{  
        Name:    String("n"),  
        Path:    String("p"),  
        SHA:     String("s"),  
        Size:    Int(1),  
        URL:     String("u"),  
        HTMLURL: String("h"),  
        GitURL:  String("g"),  
        DownloadURL: String("d"),  
        Type:    String("t"),  
        Content: String("c"),
```

```

Encoding: String("e"),
License: &License{
  Key:      String("k"),
  Name:     String("n"),
  URL:      String("u"),
  SPDXID:   String("s"),
  HTMLURL:  String("h"),
  Featured: Bool(true),
  Description: String("d"),
  Implementation: String("i"),
  Permissions: &[]string{"p"},
  Conditions:
    &[]string{"c"},
  Limitations: &[]string{"l"},
  Body:      String("b"),
},
}
want := `{
  "name": "n",
  "path": "p",
  "sha": "s",
  "size": 1,
  "url": "u",
  "html_url": "h",
  "git_url": "g",
  "download_url": "d",
  "type": "t",
  "content": "c",
  "encoding": "e",
  "license": {
    "key": "k",
    "name": "n",
    "url": "u",
    "spdx_id": "s",
    "html_url": "h",
    "featured": true,
    "description": "d",
    "implementation": "i",
    "permissions": ["p"],
    "conditions": ["c"],
    "limitations": ["l"],
    "body": "b"
  }
}`
testJSONMarshal(t, rl, want)
}

func TestLicense_marshal(t *testing.T) {

```

```
testJSONMarshal(t, &License{}, "{}")
```

```
l := &License{
    Key:      String("k"),
    Name:     String("n"),
    URL:      String("u"),
    SPDXID:   String("s"),
    HTMLURL:  String("h"),
    Featured: Bool(true),
    Description: String("d"),
    Implementation: String("i"),
    Permissions: &[]string{"p"},
    Conditions: &[]string{"c"},
    Limitations:
        &[]string{"l"},
    Body:     String("b"),
}
```

```
want := `{
    "key": "k",
    "name": "n",
    "url": "u",
    "spdx_id": "s",
    "html_url": "h",
    "featured": true,
    "description": "d",
    "implementation": "i",
    "permissions": ["p"],
    "conditions": ["c"],
    "limitations": ["l"],
    "body": "b"
}`
testJSONMarshal(t, l, want)
}
```

```
func TestLicensesService_List(t *testing.T) {
    client, mux, _, teardown := setup()
    defer teardown()
```

```
    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        fmt.Fprint(w,
            `[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
    })
```

```
    ctx := context.Background()
    licenses, _, err := client.Licenses.List(ctx)
    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)
}

const methodName = "List"
testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
    got, resp, err := client.Licenses.List(ctx)
    if got != nil {
        t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
    }
    return resp, err
})

func TestLicensesService_Get(t *testing.T) {
    client, mux, _, teardown := setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
    })

    ctx := context.Background()
    license, _, err := client.Licenses.Get(ctx, "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)
    }

    const
    methodName = "Get"
    testBadOptions(t, methodName, func() (err error) {
        _, _, err = client.Licenses.Get(ctx, "\n")
    })

```

```

return err
})

testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
    got, resp, err := client.Licenses.Get(ctx, "mit")
    if got != nil {
        t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
    }
    return resp, err
})
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    client, _, _, teardown := setup()
    defer teardown()

    ctx := context.Background()
    _, _, err := client.Licenses.Get(ctx, "%")
    testURLParseError(t, err)
}

```

1.263 renameio v0.1.0

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1.264 githubcomgregjoneshttpcache v0.0.0-20180305231024-9cad4c3443a7

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1.265 tail v1.0.0

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tomb - support for clean goroutine termination in Go.

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1.266 kisielk-errcheck v1.2.0

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1.268 kr v1.1.5

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1.270 goautoneg v0.0.0-20191010083416-a7dc8b61c822

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1.272 cachecontrol v0.0.0-20171018203845-0dec1b30a021

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1.273 githubcompeterbourgondiskv

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1.274 go-diff v1.0.0

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1.275 clientmodel v0.2.0

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1.276 stretchr-objx v0.2.0

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1.277 tomb v1.0.0-20141024135613-dd632973f1e7

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1.278 gopkg-in-square-go-jose-v2 v2.2.2

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1.284 pmezard-goddiff v1.0.0

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1.285 image-spec v1.0.1

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1.289 nftables-vim 0_git20190725-r0

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

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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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@enumerate a

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@item

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

@item

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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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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}
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@end smallexample

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'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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Version 2.1, February 1999

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1.292 libcom-err 1.45.7-r0

1.292.1 Available under license :

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

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

all:: image

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

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

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
```

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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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
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Theodore Ts'o
23-June-2007

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```

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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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a) Accompany the combined

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Ty Coon, President of Vice

That's all there is to it!

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

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

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

<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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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.293 keyutils-libs 1.6.3-r0

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```
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 * IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
 */
# Contributor: Sheila Aman <sheila@vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-software-license
_pkgreal=Software-License
_author=LEONT
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.103014
pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
url="https://metacpan.org/pod/Software::License"
arch="noarch"
license="Artistic-1.0-Perl"
depends="perl perl-data-section perl-text-template perl-try-tiny"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

check() {
    make test
}
```

```

}

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

sha512sums="8012f9d3e8671bdcba52f6790f6cd2f6a0510883bb40115c222c8c685aed6697ba33b3f9df8d853841cd
2eef0806d919c9038b6ba7b1057f475b3b63457069d
Software-License-0.103014.tar.gz"
# Maintainer: Adelle Platform Group <adelle-devel@lists.adelinelinux.org>
pkgname=bsd-compat-headers
pkgver=0.7.1
pkgrel=1
pkgdesc="Compatibility files for building BSD software"
url=" "
arch="noarch"
options="!check" # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
depends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h
"

package() {
    mkdir -p "$pkgdir"
    case "$CLIBC" in
        musl)
            install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
            install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
            install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
            ;;
        esac
    }

sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13
204254fd5830afb566624e1f298f4d6b58216013c28 sys-cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 sys-queue.h
07cb70f2f0ddb31e23dd913c6f561fc9885667c5803fdf3a559676c99d08834b4104589bacb5d17b4a0b379c68c81a1cf
3173832b3da33a7b936fa7b93706844
sys-tree.h"
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Contributor: Sheila Aman <sheila@vulpine.house>

Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>

pkgname=perl-string-copyright

_pkgreal=String-Copyright

_author=JONASS

_au=\${_author%%"\${_author#?}"}

_a=\${_author%%"\${_author#?}"}

pkgver=0.003006

pkgrel=0

pkgdesc="Perl module for normalizing copyright text"

url="https://metacpan.org/pod/String::Copyright"

arch="noarch"

license="GPL-3.0+"

depends="perl perl-exporter-tiny perl-number-range"

makedepends="perl-dev"

subpackages="\$pkgname-doc"

source="https://cpan.metacpan.org/authors/id/\${_a}/\${_au}/\${_author}/\${_pkgreal}-\${pkgver}.tar.gz"

builddir="\$srcdir/\${_pkgreal}-\${pkgver}"

build() {

PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor

make

}

check() {

make test

}

package() {

make DESTDIR="\$pkgdir" install

find "\$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete

}

sha512sums="7852d96cbe465dde14b4c093f77374b530967412ef95a98703fe838511e405ea9744e4dbfa314bc5a33fc
23b160d8a4866654ad60da1bfb07853263f1c11cd3f String-Copyright-0.003006.tar.gz"

Contributor: Sheila Aman <sheila@vulpine.house>

Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>

pkgname=perl-regexp-pattern-license

_pkgreal=Regexp-Pattern-License

_author=JONASS

_au=\${_author%%"\${_author#?}"}

_a=\${_author%%"\${_author#?}"}

pkgver=3.4.0

```

pkgrel=0
pkgdesc="Perl module for regex-matching legal licenses"
url="https://metacpan.org/pod/Regexp::Pattern::License"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures
perl-test-regexp-pattern perl-try-tiny"
checkdepends="perl-test-requires"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-v$pkgver.tar.gz"
buildid="$srcdir/$_pkgreal-v$pkgver"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

check() {
    make test
}

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

sha512sums="5524535f8eebe6cc2ce2065bae1f726b9a2717c34262df2ddd9106464dcfbaeb67eb310679bb636e72866
9f17041e4f101c7fb241a8e07a6cf3dc6fb3ae88e12
    Regexp-Pattern-License-v3.4.0.tar.gz"
# Maintainer:
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="Library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0+"
depends=""
makedepends=""
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"
buildid="$srcdir/libart_lgpl-$pkgver

prepare() {
    default_prepare
    update_config_sub

```

```
}
```

```
build() {  
  ./configure \  
  --build=$CBUILD \  
  --host=$CHOST \  
  --prefix=/usr  
  make  
}
```

```
package() {  
  make DESTDIR="$pkgdir" install  
}
```

```
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7  
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
```

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1.294 go-jmespath v0.0.0-20180206201540-c2b33e8439af

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1.295 x-sys 0.0.0-20190826190057-c7b8b68b1456

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1.296 color v1.7.0

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1.297 go-connections v0.3.0

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1.298 glob v0.2.3

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1.299 logfmt v0.3.0

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1.300 go-autorest v0.1.0

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1.301 tenacity 7.0.0

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1.310 google-golang-org-genproto v0.0.0-20190819201941-24fa4b261c55

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1.311 google-golang-org-genproto v0.0.0-20190307195333-5fe7a883aa19

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1.312 gopkg.in/airbrake/gobrake v2.0.9

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package gobrake

```
import (  
    "fmt"
```

```

"net/http"
"os"
"path/filepath"
"runtime"
"strings"
"sync"

"github.com/pkg/errors"
)

var defaultContextOnce sync.Once
var defaultContext map[string]interface{}

func getDefaultContext() map[string]interface{} {
defaultContextOnce.Do(func() {
defaultContext = map[string]interface{}{
"notifier": map[string]interface{}{
"name":  notifierName,
"version": notifierVersion,
"url":   "https://github.com/airbrake/gobrake",
},
"language": runtime.Version(),
"os":       runtime.GOOS,
"architecture": runtime.GOARCH,
}

if s, err := os.Hostname(); err == nil {
defaultContext["hostname"] = s
}

if wd, err := os.Getwd(); err == nil {
defaultContext["rootDirectory"] = wd
}

if s := GOPATH(); s != "" {
defaultContext["GOPATH"] = s
}
})
return defaultContext
}

func GOPATH() string {
path := os.Getenv("GOPATH")
if path != "" {
return path
}
}

```

```

path, ok := os.LookupEnv("HOME")
if ok {
    return
    filepath.Join(path, "go")
}

return ""
}

type Error struct {
    Type    string    `json:"type"`
    Message string    `json:"message"`
    Backtrace []StackFrame `json:"backtrace"`
}

type StackFrame struct {
    File string    `json:"file"`
    Line int        `json:"line"`
    Func string    `json:"function"`
    Code map[int]string `json:"code,omitempty"`
}

type Notice struct {
    Id    string `json:"- "` // id returned by SendNotice
    Error error  `json:"- "` // error returned by SendNotice

    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 (n *Notice) String() string {
    if len(n.Errors) == 0 {
        return "Notice<no errors>"
    }
    e := n.Errors[0]
    return fmt.Sprintf("Notice<%s: %s>", e.Type, e.Message)
}

func (n *Notice) SetRequest(req *http.Request) {
    n.Context["url"] = req.URL.String()
    n.Context["httpMethod"]
    = req.Method
    if ua := req.Header.Get("User-Agent"); ua != "" {
        n.Context["userAgent"] = ua
    }
}

```

```

n.Context["userAddr"] = remoteAddr(req)

for k, v := range req.Header {
    if len(v) == 1 {
        n.Env[k] = v[0]
    } else {
        n.Env[k] = v
    }
}

func remoteAddr(req *http.Request) string {
    if s := req.Header.Get("X-Forwarded-For"); s != "" {
        parts := strings.Split(s, ",")
        return parts[0]
    }

    if s := req.Header.Get("X-Real-Ip"); s != "" {
        return s
    }

    parts := strings.Split(req.RemoteAddr, ":")
    return parts[0]
}

func NewNotice(e interface{}, req *http.Request, depth int) *Notice {
    notice, ok := e.(*Notice)
    if ok {
        return notice
    }

    typeName := getTypeName(e)
    notice = &Notice{
        Errors: []Error{{
            Type: typeName,
            Message: fmt.Sprintf(e),
        }},
        Context: make(map[string]interface{}),
        Env:     make(map[string]interface{}),
        Session: make(map[string]interface{}),
        Params:  make(map[string]interface{}),
    }

    for k, v := range getDefaultContext()
    {
        notice.Context[k] = v
    }
}

```

```

if depth != -1 {
    packageName, backtrace := getBacktrace(e, depth+2)
    notice.Errors[0].Backtrace = backtrace
    notice.Context["component"] = packageName
}

```

```

if req != nil {
    notice.SetRequest(req)
}

```

```

return notice
}

```

```

// getTypeName returns the type name of e.
func getTypeName(e interface{}) string {
    if err, ok := e.(error); ok {
        e = errors.Cause(err)
    }
    return fmt.Sprintf("%T", e)
}

```

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=====

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1.313 gopkg.in/gemnasium/logrus-airbrake-hook v2.1.2

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1.314 kustomize v2.0.3+incompatible

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layout: docs

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group: about

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(an
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1.315 ncurses 6.2_p20210109-r0

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1.316 brotli 1.0.9-r3

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1.317 nghttp2 1.42.0-r1

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<signature of Ty Coon>, 1 April 1989
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1.323 ipvsadm 1.31-r0

1.323.1 Available under license :

ipvsadm - Version 1.14 - 11th January 2001

This is free software. See below for details.

ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:

<http://www.LinuxVirtualServer.org/>

or

<http://www.Linux-VS.org/>

for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type
make
in the source directory.

Install to your liking. We suggest the following pathnames:

/sbin/ipvsadm

/usr/man/man8/ipvsadm.8

This will be done automatically when calling
make install
in the
source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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1.330 python-requests 2.25.1

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1.335 githubcomgolangprotobuf v1.3.2

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1.336 githubcomgoopenapiswag v0.19.5

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1.337 sigs-k8s-io-yaml v1.1.0

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1.338 aec v1.0.0

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1.339 githubcomgoopenapispec v0.19.3

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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t
    *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url\n"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }
}
```

```

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}
}

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
}

```

```

return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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1.341 go-autorest v0.5.0

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1.342 githubcommailrueasyjson v0.7.0

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1.343 azure-sdk-for-go v35.0.0+incompatible

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1.355 googlecloudgo v0.34.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier:
1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        GetIamPolicy: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        Insert: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        List: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
```

```

    Initial: 100 * time.Millisecond,
    Max: 60000 * time.Millisecond,
    Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
    ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

```



```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
// gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.

```

```

func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like
// Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective
// image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

```

```

// NewLicensesRESTClient creates a new licenses rest client.
//
//
The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)

```

```

kv = append(kv, "gaptic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if
e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners

who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts
    = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unrm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := io.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        if err := unrm.Unmarshal(buf, resp); err != nil {
            return err
        }
    })
}
```

```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
// May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
// partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

    headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if
e != nil {
    return nil, e
}
return resp, nil
}

```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

params := url.Values{}
if req != nil && req.RequestId != nil {

```



```

params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err !=
nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e

```

```

}
op := &Operation{
  &globalOperationsHandle{
    c:    c.operationClient,
    proto: resp,
    project: req.GetProject(),
  },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true,
    DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
      req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
      return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
      params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
      params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
      params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
  }
}

```

```

if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return
    }
    err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp

```

```

return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial:
true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}

```

```

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path
    != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {

```

```

return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e
:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {

```

```

    return err
}

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *compute_pb.License.
type LicenseIterator struct {
    items    []*compute_pb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It
    // must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*compute_pb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*compute_pb.License, error) {
    var item *compute_pb.License
    if
    err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

```

```
}
```

```
func (it *LicenseIterator) bufLen() int {  
    return len(it.items)  
}
```

```
func (it *LicenseIterator) takeBuf() interface{} {  
    b := it.items  
    it.items = nil  
    return b  
}
```

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```

```
package compute_test
```

```
import (
    "context"
```

```
compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"google.golang.org/api/iterator"
)
```

```
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}
```

```

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }

```

```

}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

```



```
}
```

```
func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range
    values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown
    in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
```

```

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

// TODO: Use resp.
_ = resp
}
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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption

```

```

}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
      return gax.OnHTTPCodes(gax.Backoff{
        Initial: 100 * time.Millisecond,
        Max:     60000 * time.Millisecond,
        Multiplier: 1.30,
      },
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
  },
  TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
  },
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
// Compute Engine API.
type internalLicenseCodesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
  (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicenseCodesClient

  // The call options for this service.
  CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
(c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

```

```

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions
}

//
NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return
// a specified license code. License codes are mirrored across all projects that have permissions to read the License
// Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```



```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by

third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

```

```

// Build HTTP headers from client and context metadata.

```

```

md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

1.356 githubcomgoopenapijsonreference v0.19.2

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1.366 e2fsprogs 1.46.2-r0

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

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

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;'/'\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

`$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)`

clean::

`$(RM)`

`-rf pic`

`$(RM) -f $(BSD_LIB)`

`$(RM) -f ../$(BSD_LIB)`

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

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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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Gadi Oxman, August 1995

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY;
for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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on

the Program is not required to print an announcement.)

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

If the program is interactive, make it output a short notice like this
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be called something other than `show w' and `show c'; they could even be
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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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Version 2, June 1991

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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

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compelled
to copy the source along with the object code.

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

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

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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1.367 go-uber-org-atomic v1.3.2

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1.368 google-golang-org-grpc v1.19.0

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1.369 tcplisten v0.0.0-20161114210144-ceec8f93295a

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1.370 kubernetes-heapster v1.2.0-beta.1

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

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This is a list of people who have contributed code

to the Elastic repository.

#

It is just my small "thank you" to all those that helped

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#

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Support for streaming Protocol Buffer messages for the Go language (golang).

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

fields:

site: string

author: root

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

fields:

site: string

author: root

1.387 go-junit-report v0.0.0-20190106144839-af01ea7f8024

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1.396 gomega v1.7.0

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1.397 mongo-driver v1.1.1

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1.398 pty v1.1.7

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1.399 mongo-driver v1.0.3

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BSON library for Go

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package compute_test

import (
"context"

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

// TODO: Use
client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request struct fields.
// See <https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest>.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (

 "context"

 compute "cloud.google.com/go/compute/apiv1"

 "google.golang.org/api/iterator"

 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

)

func ExampleNewLicensesRESTClient() {

 ctx := context.Background()

 c, err := compute.NewLicensesRESTClient(ctx)

 if err != nil {

 // TODO: Handle error.

```

}
defer
c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_GetIamPolicy()
{
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    resp, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_List() {
    ctx :=
    context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func
ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```



```

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"

```

```

)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

```

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

//
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
// fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
}

```

```

c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gpic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts

```

```

...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
    req.GetLicenseCode())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp,
    err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.LicenseCode{}

    if err := unmarshalOptions.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    marshalOptions := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()

```

```

jsonReq, err := m.Marshal(body)
if
err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return
rsp, nil
}
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```

```
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```

```
package compute
```

```
import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)
```

```
var
    newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
}
```

```

TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
    (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions
    *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```



```

}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces
any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint
    string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

```

```

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

```

```

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp);
err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }

```

```

}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v
:= range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _
:= url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

```

```

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if
err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that

belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available

licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
```

```
...gax.CallOption) *LicenseIterator {
```

```
it := &LicenseIterator{}
```

```
req = proto.Clone(req).(*computepb.ListLicensesRequest)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
```

```
    resp := &computepb.LicensesListResponse{}
```

```
    if pageToken != "" {
```

```
        req.PageToken = proto.String(pageToken)
```

```
    }
```

```
    if pageSize > math.MaxInt32 {
```

```
        req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
    } else if pageSize != 0 {
```

```
        req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
    }
```

```
    baseUrl, _ := url.Parse(c.endpoint)
```

```
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
```

```
    req.GetProject())
```

```
    params := url.Values{}
```

```
    if req != nil && req.Filter != nil {
```

```
        params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
    }
```

```
    if req != nil && req.MaxResults != nil {
```

```
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
```

```
    }
```

```
    if req != nil && req.OrderBy != nil {
```

```
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
    }
```

```
    if req != nil && req.PageToken != nil {
```

```
        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
    }
```

```
    if req != nil && req.ReturnPartialSuccess != nil {
```

```
        params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
```

```
    }
```

```
    baseUrl.RawQuery = params.Encode()
```

```
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
    if err != nil {
```

```
        return nil, "", err
```

```
    }
```

```
    // Set the headers
```



```

for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err !=
nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c
*licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}

```

```

body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if
err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    httpReq,
err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestPermissionsResponse{}

    if err := unmarshalOptions.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }

    return rsp, nil

```

```

}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is
    // the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License,
    error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil

```

```
return b
}
```

1.402 githubcomgooglebtree v0.0.0-20180813153112-4030bb1f1f0c

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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 spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML,
        license)
}
```

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

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1.416 sigs.k8s.io/structured-merge-diff/v3

v3.0.0

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1.418 k8s-io-kube-openapi v0.0.0-

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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 spec

import "testing"

func TestIntegrationLicense(t *testing.T) {

 license := License{Name: "the name", URL: "the url"}

 const licenseJSON = `{"name":"the name","url":"the url"}`

 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)

 assertParsesJSON(t, licenseJSON, license)

}

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Version 2.0, January 2004

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1.419 gengo v0.0.0-20200114144118-36b2048a9120

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1.420 x-time v0.0.0-20181108054448-85acf8d2951c

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1.425 apk-tools 2.12.7-r0

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Version 3, 29 June 2007

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1.430 github.com/fsouza/go-dockerclient v1.7.0

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1.431 py3-parsing 2.4.7-r1

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1.432 openssl 1.1.1l-r0

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

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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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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1.443 gophercloud v0.1.0

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Step 5: Writing the Code

=====

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

###

A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for each field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for `_each_` call.

The following Pull Requests are good examples of how to do this:

- * <https://github.com/gophercloud/gophercloud/pull/584>
- * <https://github.com/gophercloud/gophercloud/pull/586>
- * <https://github.com/gophercloud/gophercloud/pull/587>
- *
- <https://github.com/gophercloud/gophercloud/pull/594>

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line ``godoc``. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a ``doc.go`` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following ``git`` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
```

```
$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
...
```

Advantages of this Method:

- \* Pull Requests can be merged in any order
- \* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

- \* There will be a lot of duplicate code in each Pull Request
- \* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
...
```
```

Advantages of this Method:

- \* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

- \* If a Pull Request requires changes, you will have to rebase

\_all\_ child

Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

package RESOURCE

```
import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)
```

// RESOURCE represents...

```
type Resource struct {
}
```

```
type commonResult struct {
 gophercloud.Result
}
```

// GetResult is the response from a Get operation. Call its Extract method

// to interpret it as a RESOURCE.

```
type GetResult struct {
 commonResult
}
```

// CreateResult is the response from a Create operation. Call its Extract method

// to interpret it as a RESOURCE.

```
type CreateResult struct {
 commonResult
}
```

// DeleteResult is the response from a Delete operation. Call its ExtractErr to

// determine if the request succeeded or failed.

```
type DeleteResult struct {
 gophercloud.ErrResult
}
```

// UpdateResult is the result of an Update request. Call its Extract method to

// interpret it as a RESOURCE.

```
type UpdateResult struct {
 commonResult
}
```

```

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
 pagination.LinkedPageBase
}

// IsEmpty determines whether
// or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
 resources, err := ExtractResources(r)
 return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
 var s struct {
 Links struct {
 Next string `json:"next"`
 Previous string `json:"previous"`
 } `json:"links"`
 }
 err := r.ExtractInto(&s)
 if err != nil {
 return "", err
 }
 return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
 var s struct {
 Resources []Resource `json:"resources"`
 }
 err := (r.(ResourcePage)).ExtractInto(&s)
 return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
 var s struct {
 Resource *Resource `json:"resource"`
 }
 err := r.ExtractInto(&s)
 return
 s.Resource, err
}
package RESOURCE

```

```

import (
 "github.com/gophercloud/gophercloud"
 "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 pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
 return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
 })
}

//
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
 _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
 return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
 ToResourceCreateMap() (map[string]interface{}, error)
}

```



```

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
 b, err := opts.ToResourceCreateMap()
 if err != nil {
 r.Err = err
 return
 }
 _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
 OkCodes: []int{201},
 })
 return
}

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

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

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

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

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
 b, err := opts.ToResourceUpdateMap()

```

```

if err != nil {
 r.Err = err
 return
}
_, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
 OkCodes: []int{200},
})
return
}

```

## 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 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)
 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, "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 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
 err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
 count++

 actual, err := resources.ExtractResources(page)
 th.AssertNoErr(t, err)

 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

 return true, nil
 })
 th.AssertNoErr(t, err)
 th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
 th.AssertNoErr(t, err)
 actual, err := resources.ExtractResources(allPages)
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleGetResourceSuccessfully(t)

 actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()

```

```

th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}

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)
th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts
:= resources.UpdateOpts{
 Description: "Staging Resource",
}

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

```

#### Step 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.

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### Step 3: Code Hunting

=====

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

[<https://github.com/gophercloud/gophercloud/issues/621>](<https://github.com/gophercloud/gophercloud/issues/621>).

In this issue, there's a request being made to add support for

`availability\_zone\_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool `json:"shared"`
}
```
```

to look like

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
```

We need to be sure that `availability\_zone\_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as

a customization to a single OpenStack cloud.

In addition, we need to ensure that ``availability_zone_hints`` is really a ``[]string`` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are `_not_` implying  
> that the API docs aren't  
useful or that the contributors who work on the API  
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update  
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of ``availability_zone_hints`` in the following piece of code:

<https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191>

The above code confirms that ``availability_zone_hints`` is indeed part of the ``Network`` object and that its type is a list of strings (``[]string``).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is `_not_` fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

Code Hunting Tips

-----

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- \* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

- \* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

- \* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

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).

Step 2: Create an Issue

=====

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-----

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:



- \* <https://github.com/gophercloud/gophercloud/issues/108>
- \* <https://github.com/gophercloud/gophercloud/issues/212>
- \* <https://github.com/gophercloud/gophercloud/issues/424>
- \* <https://github.com/gophercloud/gophercloud/issues/588>
- \* <https://github.com/gophercloud/gophercloud/issues/629>
- \* <https://github.com/gophercloud/gophercloud/issues/647>

## Feature Request

-----

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of 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.

package RESOURCE

```
import "github.com/gophercloud/gophercloud"
```

```
func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}
```

```
func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

```
func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}
```

```
func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

```
func updateURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

# 1.444 govalidator v0.0.0-20190424111038-f61b66f89f4a

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## 1.445 githubcommatngoisatty v0.0.3

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# 1.447 httpie 2.4.0

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 \* Added atomicops for Solaris

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 \* Added atomicops for AIX (POWER)

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# 1.452 wireshark-common 3.4.6-r0

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## 1.454 distlib 0.3.3

### 1.454.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

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

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

software.

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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=====

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distlib has started off using some of the code from distutil2.

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## 1.456 github.com/cyphar/filepath-securejoin v0.2.2

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# 1.457 github.com/seccomp/libseccomp-golang v0.9.1

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```

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```
* /helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
* /helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/package-info.java
* /helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java
*
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io.helidon.config.yaml.internal.YamlConfigParser

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io.helidon.config.yaml.internal.YamlFileTypeDetector

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# 1.465 afero 1.0.3

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## 1.467 clockwork 0.1.0

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Clockwork - a scheduler process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.]([http://adam.heroku.com/past/2010/4/13/rethinking\\_cron/](http://adam.heroku.com/past/2010/4/13/rethinking_cron/))

Clockwork is a lightweight, long-running Ruby process which sits alongside your

web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

#### Example

-----

Create schedule.rb:

```
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }

every('1d', :at => '00:00') { puts 'every night at midnight' }
```

#### Run

it with the clockwork binary:

```
$ clockwork schedule.rb
```

Or run directly with Ruby:

```
$ ruby -r schedule -e Clockwork.run
```

#### Use with queueing

-----

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>), [Beanstalk/Stalker]([http://adam.heroku.com/past/2010/4/24/beanstalk\\_a\\_simple\\_and\\_fast\\_queueing\\_backend/](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/)), [RabbitMQ/Minion]([http://adamblog.heroku.com/past/2009/9/28/background\\_jobs\\_with\\_rabbitmq\\_and\\_minion/](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/)), or [Resque](<http://github.com/blog/542-introducing-resque>). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'clockwork'
include Clockwork
```

```

require
'stalker'
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }

```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

```

require 'config/boot'
require 'config/environment'

require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }

```

In production

-----

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- \* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
- \* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta

----

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [http://github.com/bvandenbos/resque-scheduler]([http://github.com/bvandenbos/resque-scheduler](http://github.com/bvandenbos/resque-scheduler/))

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<http://github.com/adamwiggins/clockwork>

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## 1.468 go-uber-org-multierr 1.1.0

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## 1.469 golang-genproto 0.0.0-20191108220845-16a3f7862a1a

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\*/

package minio

import (

"bytes"

"context"

"encoding/xml"

"fmt"

"net/http"

"net/url"

"github.com/minio/minio-go/v7/pkg/s3utils"

)

// objectLegalHold - object legal hold specified in

// <https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html>

type objectLegalHold struct {

XMLNS string `xml:"xmlns,attr,omitempty"`

XMLName

xml.Name `xml:"LegalHold"`

Status LegalHoldStatus `xml:"Status,omitempty"`

}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call

```

type PutObjectLegalHoldOptions struct {
 VersionID string
 Status *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
(*objectLegalHold, error) {
 if status == nil {
 return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
 return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
 Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.

```



```

if err := s3utils.CheckValidBucketName(bucketName); err != nil {
 return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
 return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
 urlValues.Set("versionId", opts.VersionID)
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
 return err
}

lhData, err := xml.Marshal(lh)
if
err != nil {
 return err
}

reqMetadata := requestMetadata{
 bucketName: bucketName,
 objectName: objectName,
 queryValues: urlValues,
 contentBody: bytes.NewReader(lhData),
 contentLength: int64(len(lhData)),
 contentMD5Base64: sumMD5Base64(lhData),
 contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
 return err
}
if resp != nil {
 if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
 return httpRespToErrorResponse(resp, bucketName, objectName)
 }
}

```

```

 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
 return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
 return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
 urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
 bucketName: bucketName,
 objectName: objectName,
 queryValues: urlValues,
 contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
 return nil, err
 }
 if resp != nil {
 if resp.StatusCode != http.StatusOK {
 return nil, httpRespToErrorResponse(resp, bucketName, objectName)
 }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
 return nil, err
 }

 return &lh.Status, nil
}

```

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package spec

import (

"encoding/json"

"github.com/go-openapi/swag"

)

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

LicenseProps

VendorExtensible

}

// LicenseProps holds the properties of a License object

type LicenseProps struct {

Name string `json:"name,omitempty"`

URL string `json:"url,omitempty"`

}

// UnmarshalJSON

hydrates License from json

func (l \*License) UnmarshalJSON(data []byte) error {

if err := json.Unmarshal(data, &l.LicenseProps); err != nil {

```

 return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

```

```

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
 return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
 return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}

```

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package api

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

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

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

```

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

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

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"`

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

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

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

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

// Modules is a list
// of the licensed enterprise modules
Modules []string `json:"modules"`

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

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

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

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")

```

```

r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
 return "", 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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Squirrel

The Masterminds

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## 1.0.1-0.20190118093823-f849b5445de4

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\* @version 3.0 (December 2000)

\*

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

\*

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# 1.483 x-crypto 0.0.0-20190605123033-f99c8df09eb5

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## 1.484 golang 1.10

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```
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```

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```
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# 1.489 iconv 2.24

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the object

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Version 3, 29 June 2007

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The

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goveralls

=====

[Go](<http://golang.org>) integration for [Coveralls.io](<http://coveralls.io>) continuous code coverage tracking system.

# Installation

`goveralls` requires a working Go installation (Go-1.2 or higher).

```bash

\$ go get github.com/mattn/goveralls

```

# Usage

First you will need an API token. It is found at the bottom of your repository's page when you are logged in to Coveralls.io. Each repo has its own token.

```
```bash
$ cd $GOPATH/src/github.com/yourusername/yourpackage
$ goveralls -repotoken your_repos_coveralls_token
```
```

You can set the environment variable ``$COVERALLS_TOKEN`` to your token so you do not have to specify it at each invocation.

## # Continuous Integration

There is no need to run ``go test`` separately, as ``goveralls`` runs the entire test suite.

## ## Travis CI

### ### GitHub Integration

Enable Travis-CI on your github repository settings.

For a **public** github repository put below's ``.travis.yml``.

```
```yaml
language: go
sudo: false
go:
  - tip
before_install:
  - go get github.com/mattn/goveralls
script:
  - $GOPATH/bin/goveralls -service=travis-ci
```
```

For a **public** github repository, it is not necessary to define your repository key (``COVERALLS_TOKEN``).

For a **private** github repository put below's ``.travis.yml``. If you use **travis pro**, you need to specify ``-service=travis-pro`` instead of ``-service=travis-ci``.

```
```yaml
language: go
sudo: false
go:
  - tip
before_install:
  - go get github.com/mattn/goveralls
script:
  - $GOPATH/bin/goveralls -service=travis-pro
```
```

---

Store your Coveralls API token in `Environment variables`.

---

COVERALLS\_TOKEN = your\_token\_goes\_here

---

or you can store token using [travis encryption keys](https://docs.travis-ci.com/user/encryption-keys/). Note that this is the token provided in the page for that specific repository on Coveralls. This is *\*not\** one that was created from the "Personal API Tokens" area under your Coveralls account settings.

---

```
$ gem install travis
```

```
$ travis encrypt COVERALLS_TOKEN=your_token_goes_here --add env.global
```

---

travis will add `env` block as following example:

```
```yaml
```

```
env:
```

```
  global:
```

```
    secure: xxxxxxxxxxxxxxxx
```

```
```
```

### For others:

---

```
$ go get github.com/mattn/goveralls
```

```
$ go test -covermode=count -coverprofile=profile.cov
```

```
$ goveralls -coverprofile=profile.cov -service=travis-ci
```

---

## Drone.io

Store your Coveralls API token in `Environment Variables`:

---

COVERALLS\_TOKEN=your\_token\_goes\_here

---

Replace the `go test` line in your `Commands` with these lines:

---

```
$ go get github.com/mattn/goveralls
```

```
$ goveralls -service drone.io
```

---

`goveralls` automatically use the environment variable `COVERALLS\_TOKEN` as the default value for `-repotoken`.

You can use the `-v` flag to see verbose output from the test suite:

```
...
```

```
$ goveralls -v -service drone.io
```

```
...
```

## CircleCI

Store your Coveralls API token as an [Environment Variable](https://circleci.com/docs/environment-variables).

In

your `circle.yml` add the following commands under the `test` section.

```
```yaml
```

```
test:
```

```
  pre:
```

```
    - go get github.com/mattn/goveralls
```

```
  override:
```

```
    - go test -v -cover -race -coverprofile=/home/ubuntu/coverage.out
```

```
  post:
```

```
    - /home/ubuntu/.go_workspace/bin/goveralls -coverprofile=/home/ubuntu/coverage.out -service=circle-ci -  
      repotoken=$COVERALLS_TOKEN
```

```
```
```

For more information, See <https://coveralls.zendesk.com/hc/en-us/articles/201342809-Go>

# Authors

\* Yasuhiro Matsumoto (a.k.a. mattn)

\* haya14busa

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

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Version 3, 29 June 2007

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## 1.521 findmnt 2.37.4-r0

### 1.521.1 Available under license :

```
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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```
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```

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# 1.522 mcookie 2.37.4-r0

## 1.522.1 Available under license :

|   | 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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2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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## 1.524 Isblk 2.37.4-r0

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```
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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Version 2.1, February 1999

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./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@  
WEV[B "1

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\*/

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## 1.525.1 Available under license :

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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```
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```

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## 1.526 setpriv 2.37.4-r0

### 1.526.1 Available under license :

| NR | START | END | SECTORS | SIZE | NAME | UUID |
|----|-------|-----|---------|------|------|------|
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|   |    |      |      |      |  |             |
|---|----|------|------|------|--|-------------|
| 1 | 32 | 7679 | 7648 | 3.7M |  | 8f8378c0-01 |
|---|----|------|------|------|--|-------------|

|   |      |       |      |      |  |             |
|---|------|-------|------|------|--|-------------|
| 2 | 7680 | 16383 | 8704 | 4.3M |  | 8f8378c0-02 |
|---|------|-------|------|------|--|-------------|

|   |      |       |      |      |  |  |
|---|------|-------|------|------|--|--|
| 5 | 7936 | 12799 | 4864 | 2.4M |  |  |
|---|------|-------|------|------|--|--|



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### 1.527.1 Available under license :

```
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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|---|-------|-------|------|---------|------|-------------|------|
| 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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## 1.529 blkid 2.37.4-r0

### 1.529.1 Available under license :

| NR | START | END | SECTORS | SIZE | NAME | UUID |
|----|-------|-----|---------|------|------|------|
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|   |    |      |      |      |  |             |
|---|----|------|------|------|--|-------------|
| 1 | 32 | 7679 | 7648 | 3.7M |  | 8f8378c0-01 |
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|   |      |       |      |      |  |             |
|---|------|-------|------|------|--|-------------|
| 2 | 7680 | 16383 | 8704 | 4.3M |  | 8f8378c0-02 |
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|   |      |       |      |      |  |  |
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| 5 | 7936 | 12799 | 4864 | 2.4M |  |  |
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| 6 | 12544 | 16127 | 3584 | 1.8M |  |  |
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```
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```

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```
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```

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- \*/

## 1.530 util-linux 2.37.4-r0

### 1.530.1 Available under license :

```
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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Version 2.1, February 1999

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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.

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. 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 \$

A. HISTORY OF THE SOFTWARE

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

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

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

Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

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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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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
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| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
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| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
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#### History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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## A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived<br>from | Year      | Owner | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|-------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI   | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI  | yes                     |

|               |           |      |            |         |
|---------------|-----------|------|------------|---------|
| 1.6           | 1.5.2     | 2000 | CNRI       | no      |
| 2.0           | 1.6       | 2000 | BeOpen.com | no      |
| 1.6.1         | 1.6       | 2001 | CNRI       | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001 | PSF        | no      |
| 2.0.1         | 2.0+1.6.1 | 2001 | PSF        | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001 | PSF        | yes     |
| 2.1.2         | 2.1.1     | 2002 | PSF        | yes     |
| 2.1.3         | 2.1.2     | 2002 | PSF        | yes     |
| 2.2 and above |           |      |            |         |
| 2.1.1         | 2001-now  | PSF  |            | yes     |

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## 1.540 sysstat 12.5.2-r0

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```
Gnomovision version 69, Copyright
(C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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# 1.548 py3-pygments 2.7.4-r0

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# New ports collection makefile for: python25\n' Comment

# Date created: 3 July 2003\n' Comment

# Whom: Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

#\n' Comment

# \$FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp \$\n' Comment

\n' Text

'PORTNAME' Name.Variable

'=' Operator

'\t' Text

'python25' Text

\n' Text

'PORTVERSION' Name.Variable

'=' Operator

'\t' Text

'2' Literal.Number

'.5.1' Text

\n' Text

'CATEGORIES' Name.Variable

'=' Operator

'\t' Text

'lang' Text

' ' Text

'python' Text

' ' Text

'ipv6' Text

'\n' Text

'MASTER\_SITES' Name.Variable

'=' Operator

'\t' Text

'\${' Literal.String.Interpol

'PYTHON\_MASTER\_SITES' Name.Variable

'}' Literal.String.Interpol

'\n' Text

'MASTER\_SITE\_SUBDIR' Name.Variable

'=' Operator

'\t' Text

'\${' Literal.String.Interpol

'PYTHON\_MASTER\_SITE\_SUBDIR' Name.Variable

'}' Literal.String.Interpol

'\n' Text

'DISTFILES' Name.Variable

'=' Operator

'\t' Text

'\${' Literal.String.Interpol

'PYTHON\_DISTFILE' Name.Variable

'}' Literal.String.Interpol

'\n' Text

'\n' Text

'MAINTAINER' Name.Variable

'=' Operator

'\t' Text

'python@FreeBSD.org' Text

'\n' Text

'COMMENT' Name.Variable

'?=' Operator

'\t' Text

'An' Text

' ' Text

'interpreted' Text

' ' Text

'object-oriented' Text

' ' Text

'programming' Text

' ' Text

'language' Text

```

'\n' Text

'\n' Text

'DIST_SUBDIR' Name.Variable
'=' Operator
'\t' Text
'python' Text
'\n' Text

'WRKSR' Name.Variable
'=' Operator
'\t\t' Text
'${' Literal.String.Interpol
'PYTHON_WRKSR'
Name.Variable
'}' Literal.String.Interpol
'/portbld.static' Text
'\n' Text

'PATCH_WRKSR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_WRKSR' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'GNU_CONFIGURE' Name.Variable
'=' Operator
'\t' Text
'yes' Text
'\n' Text

'CONFIGURE_TARGET' Name.Variable
'=' Operator
'\t' Text
'--build' Text
'=' Operator
'${' Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}' Literal.String.Interpol
'-portbld-freebsd' Text
'${' Literal.String.Interpol
'OSREL' Name.Variable
'}' Literal.String.Interpol
'\n' Text

```



'CONFIGURE\_SCRIPT' Name.Variable

'=' Operator

'\t' Text

'../configure' Text

' ' Text

'# must be relative\n' Comment.Single

'CONFIGURE\_ENV' Name.Variable

'=' Operator

'\t'

Text

'OPT' Name.Variable

'=' Operator

""" Literal.String.Double

'\${' Literal.String.Interpol

'CFLAGS' Name.Variable

'}' Literal.String.Interpol

""" Literal.String.Double

' ' Text

'SVNVERSION' Name.Variable

'=' Operator

""echo freebsd"" Literal.String.Double

'\n' Text

'MAKE\_ENV' Name.Variable

'=' Operator

'\t' Text

'VPATH' Name.Variable

'=' Operator

""" Literal.String.Double

'\${' Literal.String.Interpol

'PYTHON\_WKSRRC' Name.Variable

'}' Literal.String.Interpol

""" Literal.String.Double

'\n' Text

'INSTALLS\_SHLIB' Name.Variable

'=' Operator

'\t' Text

'yes' Text

'\n' Text

'INSTALL\_TARGET' Name.Variable

'=' Operator

'\t' Text

'altinstall' Text

'\n' Text

```

'MAN1' Name.Variable
'=' Operator
'\t\t' Text
'${' Literal.String.Interpol
 Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text
'\n' Text

'\n' Text

'USE_PYTHON' Name.Variable
'=' Operator
'\t' Text
'yes' Text
'\n' Text

'PYTHON_VERSION' Name.Variable
'=' Operator
'\t' Text
'python2.5' Text
'\n' Text

'PYTHON_NO_DEPENDS' Name.Variable
'=' Operator
'\t' Text
'yes' Text
'\n' Text

'\n' Text

'SHARED_WKSRRC' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_WKSRRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.shared' Text
'\n' Text

'PLIST' Name.Variable
'=' Operator
'\t\t' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/PLIST' Text

```

'\n'      Text

'PLIST\_TEMPLATE' Name.Variable

'?='      Operator

'\${'      Literal.String.Interpol

'PKGDIR'    Name.Variable

'}'      Literal.String.Interpol

'/pkg-plist' Text

'\n'      Text

'PLIST\_SUB' Name.Variable

'='      Operator

'\t'      Text

'PYVER'    Name.Variable

'='      Operator

'\${'      Literal.String.Interpol

'PYTHON\_VERSION' Name.Variable

':'      Punctuation

'S'      Name.Variable

'/python/' Punctuation

'}'      Literal.String.Interpol

' '      Text

'\\n'      Literal.String.Escape

'\t\t'    Text

'PYVER\_WITHPAT' Name.Variable

'='      Operator

'\${'      Literal.String.Interpol

'PORTVERSION' Name.Variable

':'      Punctuation

'S'      Name.Variable

'/c/c/'    Punctuation

'}'      Literal.String.Interpol

'\n'      Text

'DEMODIR'    Name.Variable

'='      Operator

'\t'      Text

'\${'      Literal.String.Interpol

'PREFIX'    Name.Variable

'}'      Literal.String.Interpol

'/share/examples/' Text

'\${'      Literal.String.Interpol

'PYTHON\_VERSION'

    Name.Variable

'}'      Literal.String.Interpol

'\n'      Text

'TOOLS DIR' Name.Variable  
'=' Operator  
'\t' Text  
'\${' Literal.String.Interpol  
'PREFIX' Name.Variable  
'}' Literal.String.Interpol  
'/share/' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'\n' Text  
  
'\n' Text

'BIN\_SCRIPTS' Name.Variable  
'=' Operator  
'\t' Text  
'idle' Text  
' ' Text  
'pydoc' Text  
' ' Text  
'python' Text  
' ' Text  
'python-shared' Text  
' ' Text  
'smtpd.py' Text  
' ' Text  
'python-config' Text  
' ' Text  
'\\n' Literal.String.Escape  
  
'\t\t' Text  
'python-shared-config' Text  
'\n' Text

'BINLINKS\_SUB' Name.Variable  
'=' Operator  
'\t' Text  
'-e' Text  
' ' Text  
"'s,smtpd,smtpd\${PYTHON\_VER},'" Literal.String.Single  
,  
' Text  
'\\n' Literal.String.Escape  
  
'\t\t' Text  
'-e' Text

```

'' Text
"s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER}"," Literal.String.Single
'\n\n' Text

'OPTIONS' Name.Variable
'=' Operator
'\t' Text
'THREADS' Text
'' Text
""Enable thread support"" Literal.String.Double
'' Text
'on' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'HUGE_STACK_SIZE' Text
'' Text
""Use a larger thread stack"" Literal.String.Double
'' Text
'off' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'UCS4' Text
'' Text
""Use UCS4 for unicode support"" Literal.String.Double
'' Text
'on' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'PYMALLOC' Text
'' Text
""Use python's internal malloc"" Literal.String.Double
'
' Text
'on' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'IPV6' Text
'' Text
""Enable IPv6 support"" Literal.String.Double
'' Text

```

```

'on' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'FPECTL' Text
'' Text
'''Enable floating point exception handling''' Literal.String.Double
'' Text
'off' Text
'\n\n' Text

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n' Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS' Name.Variable
'=' Operator
'\t\t' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text
'' Text
'python.1' Text
'\n' Text

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'IF_DEFAULT' Name.Variable
'=' Operator
''''''
 Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'IF_DEFAULT' Name.Variable
'=' Operator
'''@comment ''' Literal.String.Double
'\n' Text

```

```

'.endif\n' Comment.Preproc

'\n' Text

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS' Name.Variable
'+=' Operator
'\t' Text
'-D__wchar_t' Text
'=' Operator
'wchar_t' Text
'\n' Text

'\n' Text

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--with-threads' Text
'\n' Text

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text
'${' Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text
Text
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text

'.else\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text

```

```

'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x100000' Text
'\n' Text

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text
'LDFLAGS' Name.Variable
'=' Operator
""" Literal.String.Double
'${' Literal.String.Interpol
'PTHREAD_LIBS' Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--without-threads' Text
'\n' Text

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV'
Name.Variable
'+=' Operator
'\t\t' Text
'LDFLAGS' Name.Variable
'=' Operator
""" Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
'\n' Text

'.endif # defined(LDFLAGS)\n' Comment.Preproc

```



'.endif # !defined(WITHOUT\_THREADS)\n' Comment.Preproc

'\n' Text

'.if !defined(WITHOUT\_UCS4) && !defined(WITH\_UCS2)\n' Comment.Preproc

'CONFIGURE\_ARGS' Name.Variable

'+=' Operator

'\t' Text

'--enable-unicode' Text

'=' Operator

'ucs4' Text

'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if defined(WITHOUT\_PYMALLOC)\n' Comment.Preproc

'CONFIGURE\_ARGS' Name.Variable

'+=' Operator

' ' Text

'--without-pymalloc' Text

'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if \${ARCH} == i386\n' Comment.Preproc

'PLIST\_SUB'

Name.Variable

'+=' Operator

'\t' Text

'X86\_ONLY' Name.Variable

'=' Operator

"" Literal.String.Double

'\n' Text

'.else\n' Comment.Preproc

'PLIST\_SUB' Name.Variable

'+=' Operator

'\t' Text

'X86\_ONLY' Name.Variable

'=' Operator

```

"@comment" Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
"@comment" Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
"" Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
' ' Text
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'NO_NIS' Name.Variable

```

```

'=' Operator
'"@comment"' Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'NO_NIS' Name.Variable
'=' Operator
"" Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--enable-ipv6' Text
'\n' Text

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--disable-ipv6'
Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--with-fpectl' Text
'\n' Text

'.endif\n' Comment.Preproc

```

```

'\n' Text

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text
'plat-freebsd5' Text
'' Text
'plat-freebsd6' Text
'\n' Text

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text
'plat-freebsd5' Text
'' Text
'plat-freebsd7' Text
'\n' Text

'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text
'plat-freebsd6' Text
'' Text
'plat-freebsd7' Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'pre-patch'
 Name.Function
':' Operator
'\n' Text

'\t' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable

```

```

'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'WRKSR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'SHARED_W' Name.Variable
'}' Literal.String.Interpol
'/Modules' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'"1s,^.*$,$#{PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_W' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/pydoc' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR'
 Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'"1s,^.*$,$#{PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_W' Name.Variable

```

```

'}' Literal.String.Interpol
'/Tools/scripts/idle' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
'' Text
'\n\n' Literal.String.Escape

\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/smtpd.py' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'\n\n' Literal.String.Escape

\t\t' Text
'"s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g"' Literal.String.Single
'' Text
'\n\n' Literal.String.Escape

\t\t' Text

```

```

'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'
' Text
'-e' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'\s|^\(\s*prefixes = .*\\)\$\$|\\1, "${X11BASE}"|g"' Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/site.py' Text
'\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'"s|^\t\\(\\.ASDLGEN.*\\)\$\$|\\t${TRUE}|g"' Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'

```

```

' Text
'-e' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'''s|*\\(..INSTALL_SCRIPT.*\\)python-config$$|#port \\1|''' Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
'''s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|''' Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}'
 Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text

```



```

'-e' Text
'' Text
'''s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|''' Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}'
 Literal.String.Interpol
'-config' Text
'\n\n' Text

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Modules' Text
'\n\t' Text
'${' Literal.String.Interpol
'ECHO' Name.Variable
'}' Literal.String.Interpol
'' Text
'''fpectl fpectlmodule.c''' Literal.String.Double
'' Text
'>>' Text
'' Text

```

```

'${' Literal.String.Interpol
'WRKSR' Name.Variable
'}' Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'post-configure' Name.Function
':' Operator
'\n' Text

'\t' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
 Literal.String.Interpol
'' Text
'-C' Text
'' Text
'${' Literal.String.Interpol
'WRKSR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-cf' Text
'' Text
'-' Text
'' Text
':' Text
'' Text
'|' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-C' Text
'' Text
'${' Literal.String.Interpol
'SHARED_WRKSR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-xf' Text
'' Text
'-' Text
'\n\t' Text

```

```

'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text
'-sf' Text
'' Text
'${' Literal.String.Interpol
'PYTHON_WKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib'
 Text
'' Text
'${' Literal.String.Interpol
'WKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text
'-e' Text
'' Text
"s,s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$$(VERSION).so," Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'-e' Text
'' Text
"s,s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$$$(VERSION)," Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'-e' Text
'' Text
"s,s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$$(CCSHARED)," Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'-e' Text
'' Text
"s,s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1," Literal.String.Single
'
' Text
'\\n' Literal.String.Escape

```

'\t\t' Text  
'-e' Text  
' ' Text  
'''s,^\((BUILDPYTHON)\|:.\*\)(LIBRARY),\1,''' Literal.String.Single  
' ' Text  
'\\n' Literal.String.Escape

'\t\t' Text  
'-e' Text  
' ' Text  
'''s,^\((BUILDPYTHON):.\*\)(LIBRARY),\1,''' Literal.String.Single  
' ' Text  
'\\n' Literal.String.Escape

'\t\t' Text  
 '\${' Literal.String.Interpol  
'WRKSR' Name.Variable  
'}' Literal.String.Interpol  
'/Makefile' Text  
' ' Text  
'>' Text  
' ' Text  
 '\${' Literal.String.Interpol  
'SHARED\_WRKSR' Name.Variable  
'}' Literal.String.Interpol  
'/Makefile' Text  
'\n\n' Text

'pre-build' Name.Function  
'.' Operator  
'\n' Text

'\t' Text  
'cd' Name.Builtin  
' ' Text  
 '\${' Literal.String.Interpol  
'SHARED\_WRKSR' Name.Variable  
'}' Literal.String.Interpol  
' ;'  
 Punctuation  
' ' Text  
'\\n' Literal.String.Escape

'\t' Text  
 '\${' Literal.String.Interpol  
'SETENV' Name.Variable  
'}' Literal.String.Interpol

```

'' Text
'${' Literal.String.Interpol
'MAKE_ENV' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'MAKE' Name.Variable
'}' Literal.String.Interpol
'' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'' Text
'python' Text
';' Punctuation
'' Text
'\\n' Literal.String.Escape

't' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text
'-f' Text
'' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION'
Name.Variable
'}' Literal.String.Interpol
'.so' Text
'' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
';' Punctuation
'' Text
'\\n' Literal.String.Escape

't' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text

```

```

'-f' Text
'' Text
'python' Text
'' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'\n\n' Text

'pre-su-install' Name.Function
':' Operator
'\n' Text

```

```

'.for platform in ${PLATFORMS}\n' Comment.Preproc

```

```

'\t' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'
'
' Text
'${' Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'platform' Name.Variable
'}' Literal.String.Interpol
'\n' Text

```

```

'.for file in IN.py regen\n' Comment.Preproc

```

```

'\t' Text
'${' Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/' Text
'${' Literal.String.Interpol
'platform' Name.Variable
'}' Literal.String.Interpol
'/' Text

```

'\${'      Literal.String.Interpol  
 'file'    Name.Variable  
 '}'      Literal.String.Interpol  
 ''       Text  
 '\\n'    Literal.String.Escape  
  
 '\\t'    Text  
 '\${'    Literal.String.Interpol  
 'PYTHONPREFIX\_LIBDIR' Name.Variable  
 '}'      Literal.String.Interpol  
 '/'  
         Text  
 '\${'    Literal.String.Interpol  
 'platform' Name.Variable  
 '}'      Literal.String.Interpol  
 '/'      Text  
 '\\n'    Text  
  
 '.endfor\\n' Comment.Preproc  
  
 '.endfor\\n' Comment.Preproc  
  
 '\\n'    Text  
  
 'pre-install' Name.Function  
 ':'      Operator  
 '\\n'    Text  
  
 '\\t'    Text  
 '\${'    Literal.String.Interpol  
 'CAT'    Name.Variable  
 '}'      Literal.String.Interpol  
 ''       Text  
 '\${'    Literal.String.Interpol  
 'PLIST\_TEMPLATE' Name.Variable  
 '}'      Literal.String.Interpol  
 ''       Text  
 '|'      Punctuation  
 ''       Text  
 '\${'    Literal.String.Interpol  
 'AWK'    Name.Variable  
 '}'      Literal.String.Interpol  
 ''       Text  
 '\\{ print \$\$0; } \\n\\t/LIBDIR.\*\\.py\$\$/ && !\\/bad/ { print \$\$0 "o"; print \$\$0 "c"; }\" Literal.String.Single  
 '\\t'    Text  
 '>'      Text  
 ''       Text  
 '\${'    Literal.String.Interpol

```

'PLIST' Name.Variable
'}'
 Literal.String.Interpol
'\n\n' Text

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t' Text
'(' Operator
'[' Operator
'' Text
'-f' Text
'' Text
'${' Literal.String.Interpol
'WRKSR' Name.Variable
'}' Literal.String.Interpol
'/without_own_sha' Text
'' Text
']' Operator
'' Text
'&&' Operator
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'GREP' Name.Variable
'}' Literal.String.Interpol
'' Text
'-v' Text
'' Text
"lib-dynload/_sha" Literal.String.Single
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}'
 Literal.String.Interpol
'.tmp' Text
'' Text
'&&' Operator
'' Text
'\\n' Literal.String.Escape

```



```

\t\t' Text
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'.tmp' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
')' Operator
'' Text
'||' Operator
'' Text
'${' Literal.String.Interpol
'TRUE' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text

'post-install' Name.Function
':' Operator
'\n' Text

```

```

\t@# install config providers\n' Comment

```

```

\t' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'
 Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
'' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable

```

```

'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'-config' Text
'' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}'
 Literal.String.Interpol
'/bin' Text
'\n\n' Text

'\t@# shared version of executable and library\n' Comment

'\t' Text
'${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol

```

'/lib' Text  
 '\n\t' Text  
 'cd' Name.Builtin  
 '' Text  
 '\${' Literal.String.Interpol  
 'PREFIX' Name.Variable  
 '}' Literal.String.Interpol  
 '/lib' Text  
 ';' Punctuation  
 '' Text  
 '\${' Literal.String.Interpol  
 'LN' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text  
 '-sf' Text  
 '' Text  
 'lib' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '.so.1' Text  
 '' Text  
 '\\n' Literal.String.Escape  
  
 '\t\t' Text  
 'lib' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '.so' Text  
 '\n\t' Text  
 '\${' Literal.String.Interpol  
 'LN' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text  
 '-sf' Text  
 '' Text  
 '\${' Literal.String.Interpol  
 'PREFIX' Name.Variable  
 '}' Literal.String.Interpol  
 '/lib/lib' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '.so' Text  
 '' Text  
 '\${' Literal.String.Interpol

```

'PYTHONPREFIX_LIBDIR'
Name.Variable
'}' Literal.String.Interpol
'/config' Text
'\n\t' Text
'${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'SHARED_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\n' Text

'\t@# additional files installing by ports\n' Comment

'\t' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
''

Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol

```

```

'/idle2.5' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text
'@' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1' Text
'\n\t' Text
'${' Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'
Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python.man' Text
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'${' Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text
'\n\n' Text

```

'if \${PYTHON\_VERSION} == \${PYTHON\_DEFAULT\_VERSION}\n' Comment.Preproc

'\t' Text  
'for' Keyword  
' ' Text  
'f' Text  
' ' Text  
'in' Keyword  
' ' Text  
'\${' Literal.String.Interpol  
'BIN\_SCRIPTS' Name.Variable  
'}' Literal.String.Interpol  
';' Punctuation  
' ' Text  
'do' Keyword  
' ' Text  
'\\n' Literal.String.Escape

'\t\t' Text  
'TARGET' Name.Variable  
'='  
Operator  
'\t' Literal.String.Backtick  
'\${' Literal.String.Interpol  
'ECHO\_CMD' Name.Variable  
'}' Literal.String.Interpol  
' ' Text  
'\$\$' Name.Variable  
'f' Text  
' ' Text  
'|' Punctuation  
' ' Text  
'\${' Literal.String.Interpol  
'SED' Name.Variable  
'}' Literal.String.Interpol  
' ' Text  
'-E' Text  
' ' Text  
'\${' Literal.String.Interpol  
'BINLINKS\_SUB' Name.Variable  
'}' Literal.String.Interpol  
'\t' Literal.String.Backtick  
';' Punctuation  
' ' Text  
'\\n' Literal.String.Escape  
  
'\t\t' Text  
'cd' Name.Builtin

```

'' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'' Text
'&&' Operator
'' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}'
 Literal.String.Interpol
'' Text
'-f' Text
'' Text
'$$' Name.Variable
'TARGET' Text
'' Text
'$$' Name.Variable
'f' Text
';' Punctuation
'' Text
'\\n' Literal.String.Escape

'\t' Text
'done' Keyword
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t' Text
'@' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}' Literal.String.Interpol
'\n\t' Text
'@cd' Text
'' Text
'${' Literal.String.Interpol
'PYTHON_WKSRRC' Name.Variable

```

```

'}' Literal.String.Interpol
';' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'
' Text
'-cf' Text
'' Text
'-' Text
'' Text
'Tools' Text
'' Text
'|' Punctuation
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'(' Operator
'cd' Name.Builtin
'' Text
'${' Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-xf' Text
'' Text
'-' Text
')' Operator
'\n\t' Text
'@' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'DEMODIR' Name.Variable
'}' Literal.String.Interpol
'\n\t' Text
'@cd' Text
'' Text
'${'

```



```

 Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Demo' Text
';' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-cf' Text
'' Text
'-' Text
'' Text
'*' Text
'' Text
'|' Punctuation
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'(' Operator
'cd' Name.Builtin
'' Text
'${' Literal.String.Interpol
'DEMODIR' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-xf' Text
'' Text
'-' Text
')' Operator
'\n' Text

'.endif\n' Comment.Preproc

'\n\t' Text
'@'
Text
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
'' Text

```

```
'${' Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text
```

```
'.include <bsd.port.post.mk>\n' Comment.Preproc
```

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## 1.567 vim 8.2.4836-r0

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VIM REFERENCE MANUAL by Bram Moolenaar

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- 
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=====

## Kibaale Children's Centre

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).

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:

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.

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[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)  
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.

/\*

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## 1.568 six 1.15.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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immerrr again

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Aymeric Augustin

Lee Ball

Ben Bariteau



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\*uganda.txt\* For Vim version 9.0. Last change: 2022 Mar 02

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\*iccf\* \*ICCF\*

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- 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>

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- 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 usually 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 in the past 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. Although AIDS is now mostly under control, the problems are 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 clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. 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.

If you must send a check send it to our Canadian partner:  
<https://www.kuwasha.net/>

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha 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. Look on their site for information about sponsorship: <https://www.kuwasha.net/>

If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in

Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, 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:

<https://iccf-holland.org/germany.html>

Europe: Use a bank transfer if possible. 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:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

Others: Transfer to this account if possible:

ING bank: IBAN: NL95 INGB 0004 5487 74

Swift code: INGBNL2A

under the name "stichting ICCF Holland", Amersfoort

Checks are not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

# 1.574 libuuid 2.37.4-r0

## 1.574.1 Available under license :

| NR | START | END   | SECTORS | SIZE | NAME        | UUID |
|----|-------|-------|---------|------|-------------|------|
| 1  | 32    | 7679  | 7648    | 3.7M | 8f8378c0-01 |      |
| 2  | 7680  | 16383 | 8704    | 4.3M | 8f8378c0-02 |      |
| 5  | 7936  | 12799 | 4864    | 2.4M |             |      |
| 6  | 12544 | 16127 | 3584    | 1.8M |             |      |

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2, June 1991

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# 1.577 logrus 1.4.2

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# 1.578 k8s-io-apimachinery v0.0.0-20181127025237-2b1284ed4c93

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## version 0.1

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## 1.586 zlib 1.2.12-r3

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## 1.587 ca-certificates-bundle 20220614-r0

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```
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* C implementation based on the original Perl and shell versions
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# 1.588 ncurses-libs 6.2\_p20210109-r1

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# 1.590 ncurses 6.2\_p20210109-r1

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile:txtmode fc=72

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

This package is used for testing builds of ncurses.

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# 1.591 chardet 4.0.0

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## 1.608 github.com/google/uuid v1.1.1

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```
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```
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```

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```
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under certain conditions; type `show c'
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```

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```
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<signature of Ty Coon>, 1 April 1989

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The End

# 1.615 python 3.8.15

## 1.615.1 Available under license :

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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.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |



|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.1           | 2.0+1.6.1 | 2001     | PSF | no  |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
| 2.1.3         | 2.1.2     | 2002     | PSF | yes |
| 2.2 and above | 2.1.1     | 2001-now |     |     |
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```
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it
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```

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```
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<signature of Ty Coon>, 1 April 1989
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Version 3, 29 June 2007

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#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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## 1.622 zlib 1.2.8.dfsg-5

### 1.622.1 Available under license :

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Found in path(s):

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/msdos/Makefile.dj2
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/old/Makefile.emx
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/msdos/Makefile.emx
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/old/os2/Makefile.os2
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/win32/Makefile.gcc
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```

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/gzwrite.c
```

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```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012 Mark Adler
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*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

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```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/crc32.c
```

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```
/* gzlib.c -- zlib functions common to reading and writing gzip files
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*/
```

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```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/gzlib.c
```

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```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/zpipe.c
```

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## Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c  
some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

License

-----  
Condition of use and distribution are the same than zlib :

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-----  
Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/MiniZip64\_info.txt  
No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/gzguts.h  
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage of the official DLL build of zlib, named ZLIB1.DLL. If you have general questions about zlib, you should see the file "FAQ" found

in the zlib distribution, or at the following location:

[http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

## 1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.  
(Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib web site at:

<http://www.zlib.net/>

Applications that link to ZLIB1.DLL can rely on the following specification:

- \* The exported symbols are exclusively defined in the source files "zlib.h" and "zlib.def", found in an official zlib source distribution.
- \* The symbols are exported by name, not by ordinal.
- \* The exported names are undecorated.
- \* The calling convention of functions is "C" (CDECL).
- \* The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled test programs that must run with a valid build of ZLIB1.DLL. It is recommended to download the prebuilt DLL from the zlib web site, instead of building it yourself, to avoid potential incompatibilities that could be introduced by your compiler and build settings. If you do build the DLL yourself, please make sure that it complies with all the above requirements, and it runs with the precompiled test programs, bundled with the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL, please use a different file name.

## 2. Why did you change the name of the DLL to ZLIB1.DLL? What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required compilation settings that were incompatible to those used by a static build. The DLL settings were supposed to be enabled by defining the macro ZLIB\_DLL, before including "zlib.h". Incorrect handling of this macro was silently accepted at build time, resulting in two major problems:

\* ZLIB\_DLL was missing from the old makefile. When building the DLL, not all people added it to the build options. In consequence, incompatible incarnations of ZLIB.DLL started to circulate around the net.

\* When switching from using the static library to using the DLL, applications had to define the ZLIB\_DLL macro and to recompile all the sources that contained calls to zlib functions. Failure to do so resulted in creating binaries that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make a binary-incompatible change in the DLL interface, in order to remove the dependency on the ZLIB\_DLL macro, and to release the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major zlib version number. We hope that we will not have to break the binary compatibility again, at least not as long as the zlib-1.x series will last.

There is still a ZLIB\_DLL macro, that can trigger a more efficient build and use of the DLL, but compatibility no longer depends on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention keywords to the macros ZEXPORT and ZEXPORTVA. In practice, it depends on what you mean by "an old ZLIB.DLL", because the old DLL exists in several mutually-incompatible versions. You have to find out first what kind of calling convention is being used in your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a `"__declspec(dllexport)"` attribute in the source files. You can do this in zlib by predefining the `ZLIB_DLL` macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability, we use CDECL to refer to the convention triggered by the `"__cdecl"` keyword, STDCALL to refer to the convention triggered by `"__stdcall"`, and FASTCALL to refer to the convention triggered by `"__fastcall"`.)

- Most of the native Windows API functions (without varargs) use indeed the WINAPI convention (which translates to STDCALL in Win32), but the standard C functions use CDECL. If a user application is intrinsically tied to the Windows API (e.g. it calls native Windows API functions such as `CreateFile()`),

sometimes it makes sense to decorate its own functions with WINAPI. But if ANSI C or POSIX portability is a goal (e.g. it calls standard C functions such as `fopen()`), it is not a sound decision to request the inclusion of `<windows.h>`, or to use non-ANSI constructs, for the sole purpose to make the user functions STDCALL-able.

The functionality offered by zlib is not in the category of "Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly faster than CDECL, and it works with variable-argument functions, just like CDECL. It is unfortunate that, in spite of using STDCALL in the Windows API, it is not the default convention used by the C compilers that run under Windows. The roots of the problem reside deep inside the unsafety of the K&R-style function prototypes, where the argument types are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention. Even if an explicit convention is hard-coded into the function prototypes inside C headers, problems may appear. The necessity to expose the convention in users' callbacks is one of these problems.

The calling convention issues are also important when using zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77), have C bindings implemented initially on Unix, and relying on the C calling convention. On the other hand, the pre-.NET versions of Microsoft Visual Basic require STDCALL, while Borland Delphi prefers, although it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C programming language, we choose the default "C" convention. Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

#### 7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB\_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual

Basic). The ZLIB\_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB\_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

9. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static

C libraries, etc.

Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via <windows.h> and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are

multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs' internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such as those provided by Borland, raises similar problems.

#### 11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. Windows 95 is scarcely found nowadays, Microsoft ended its support a long time ago, and many recent applications from various vendors, including Microsoft, do not even run on it. Furthermore, no serious user should run Windows 95 without a proper update installed.

#### 12. Why are you not linking ZLIB1.DLL to <<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

\* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using the DLL



mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.

\* Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it does not work properly with Microsoft's C++ libraries, it does not provide support for 64-bit file offsets, (and so on...), and Microsoft discontinued its support a long time ago.

\* Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied with the Microsoft .NET platform, and Visual C++ 7.0/7.1, raises problems related to the status of ZLIB1.DLL as a system component. According to the Microsoft Knowledge Base article KB326922 "INFO: Redistribution of the Shared C Runtime Component in Visual C++ .NET", MSVCR70.DLL and MSVCR71.DLL are not supposed to function as system DLLs, because they may clash with MSVCRT.DLL. Instead, the application's installer is supposed to put these DLLs (if needed) in the application's private directory. If ZLIB1.DLL depends on a non-system runtime, it cannot function as a redistributable system component.

\* Linking ZLIB1.DLL to non-Microsoft runtimes, such as Borland's, or Cygwin's, raises problems related to the reliable presence of these runtimes on Win32 systems. It's easier to let the DLL build of zlib up to the people who distribute these runtimes, and who may proceed as explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL, how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0 (Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base article KB326922 (see the previous answer), the C runtime that comes with the VC7 environment is no longer considered a system component. That is, it should not be assumed that this runtime exists, or may be installed in a system directory. Since ZLIB1.DLL is supposed to be a system component, it may not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL

in VC7, you need the library of Visual C++ 6.0 or older. If you don't have this library at hand, it's probably best not to use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a way to build applications linked to a proper system runtime, from the Visual C++ environment. Until then, you have a couple of alternatives, such as linking zlib in statically. If your application requires dynamic linking, you may proceed as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial.

You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (i.e. it's neither in the PATH, nor in the SYSTEM or SYSTEM32 directories). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code that does not originate from the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed with Borland Delphi and C++ Builder. The DLL build of VCL is a redistributable file, named VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO\_GZCOMPRESS or NO\_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete zlib functionality, as implemented in the official zlib source

code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib web site. If you need something peculiar from this DLL, you can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run it with the test programs found in the DLL distribution. Running these test programs is not a guarantee of compliance, but a failure can imply a detected problem.

\*\*

This document is written and maintained by  
Cosmin Truta <cosmint@cs.ubbcluj.ro>

Found in path(s):

\* /zlib-1.2.8-dfsg-orig-1-tar-gz/zlib-1.2.8/win32/DLL\_FAQ.txt

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

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.8 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [zlib@gzip.org](mailto:zlib@gzip.org), or to Gilles Vollant [info@winimage.com](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is

<http://zlib.net/> . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson <[markn@ieee.org](mailto:markn@ieee.org)> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/> .

The changes made in version 1.2.8 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <[pmqs@cpan.org](mailto:pmqs@cpan.org)> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <[amk@amk.ca](mailto:amk@amk.ca)> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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|                                                    |                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------|
| Jean-loup Gailly                                   | Mark Adler                                                               |
| <a href="mailto:jloup@gzip.org">jloup@gzip.org</a> | <a href="mailto:madler@alumni.caltech.edu">madler@alumni.caltech.edu</a> |

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/README

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

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2008, 2010, 2013 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/inffast.c

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

Not copyrighted -- provided to the public domain

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/zlib\_how.html

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

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2012 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/trees.c

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

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/inflate.c

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

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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

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

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/zlib.h

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

/\* infback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2011 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/infback.c

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2013 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/zutil.h

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

/\* gun.c -- simple gunzip to give an example of the use of inflateBack()

\* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.7 12 August 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/gun.c

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

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.8 is a general purpose data compression library. All the code is thread safe. 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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). Two compiled examples are distributed in this package, `example` and `minigzip`. The `example_d` and `minigzip_d` flavors validate that the `zlib1.dll` file is working correctly.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org). The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read `DLL_FAQ.txt`, and the the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

### Manifest:

The package `zlib-1.2.8-win32-x86.zip` will contain the following files:

|                               |                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------|
| <code>README-WIN32.txt</code> | This document                                                                             |
| <code>ChangeLog</code>        | Changes since previous zlib packages                                                      |
| <code>DLL_FAQ.txt</code>      | Frequently asked questions about <code>zlib1.dll</code>                                   |
| <code>zlib.3.pdf</code>       | Documentation of this library in Adobe Acrobat format                                     |
| <code>example.exe</code>      | A statically-bound example (using <code>zlib.lib</code> , not the <code>dll</code> )      |
| <code>example.pdb</code>      | Symbolic information for debugging <code>example.exe</code>                               |
| <code>example_d.exe</code>    | A <code>zlib1.dll</code> bound example (using <code>zdll.lib</code> )                     |
| <code>example_d.pdb</code>    | Symbolic information for debugging <code>example_d.exe</code>                             |
| <code>minigzip.exe</code>     | A statically-bound test program (using <code>zlib.lib</code> , not the <code>dll</code> ) |
| <code>minigzip.pdb</code>     | Symbolic information for debugging <code>minigzip.exe</code>                              |
| <code>minigzip_d.exe</code>   | A <code>zlib1.dll</code> bound test program (using <code>zdll.lib</code> )                |
| <code>minigzip_d.pdb</code>   | Symbolic information for debugging <code>minigzip_d.exe</code>                            |



zlib.h        Install  
these files into the compilers' INCLUDE path to  
zconf.h       compile programs which use zlib.lib or zdll.lib

zdll.lib      Install these files into the compilers' LIB path if linking  
zdll.exp      a compiled program to the zlib1.dll binary

zlib.lib      Install these files into the compilers' LIB path to link zlib  
zlib.pdb      into compiled programs, without zlib1.dll runtime dependency  
              (zlib.pdb provides debugging info to the compile time linker)

zlib1.dll     Install this binary shared library into the system PATH, or  
              the program's runtime directory (where the .exe resides)  
zlib1.pdb     Install in the same directory as zlib1.dll, in order to debug  
              an application crash using WinDbg or similar tools.

All .pdb files above are entirely optional, but are very useful to a developer attempting to diagnose program misbehavior or a crash. Many additional important files for developers can be found in the zlib127.zip source package available from <http://zlib.net/> - review that package's README file for details.

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

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If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/win32/README-WIN32.txt

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

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/gzappend.c

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

```
/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/gzread.c
```

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

```
/*
```

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB ([www.gzip.org](http://www.gzip.org))

```
*/
```

Found in path(s):

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/mztools.c
```

```
* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/mztools.h
```

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

```
/* zip.h -- IO on .zip files using zlib
```

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----

## Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/zip.h

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/infrees.h

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

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/test/minigzip.c

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

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/gzjoin.c

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

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/test/infcover.c

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

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2013 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/inftrees.c

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

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/gzclose.c

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

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/test/example.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2012 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/deflate.h

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

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/uncompr.c

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/compress.c

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

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2009 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/inflate.h

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

/\* gzlog.h

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\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/gzlog.h

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

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/adler32.c

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

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the  
non-echoing password parts) were originally written in Europe. The  
whole source package can be freely distributed, including from the USA.  
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from  
Roger Schlafly, described by Phil Katz in the file appnote.txt. This  
file (appnote.txt) is distributed with the PKZIP program (even in the  
version without encryption capabilities).

-----

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is  
now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/



Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/unzip.c

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

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/gzlog.c

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

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2005, 2010, 2011, 2012 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/zutil.c

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

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/zran.c

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/deflate.c

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/\* unzip.h -- IO for uncompress .zip files using zlib

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Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/contrib/minizip/unzip.h

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Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/> .

3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>

- \* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.

Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed.

Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you

can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work  
with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is  
32 bits. If the compiler's "long" type is  
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home



page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the [comp.compression FAQ](#) for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/> , which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed

for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/FAQ

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/\* fitblk.c: example of fitting compressed output to a specified size

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Version 1.1 25 November 2004 Mark Adler \*/

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\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/examples/fitblk.c

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\*/

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\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/inffast.h

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\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/zconf.h.cmakein

\* /zlib-1-2-8-dfsg-orig-1-tar-gz/zlib-1.2.8/zconf.h

# 1.623 lz4 0.0~r131-2+b1

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: \*

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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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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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# 1.632 dgrijalva-jwt-go 3.2.0+incompatible

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# 1.633 etcd (devel)

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# PR management

## Purpose

Speed up PR management.

The `etcd` PRs are listed at <https://github.com/etcd-io/etcd/pulls>

A PR can have various labels, milestone, reviewer etc. The detailed list of labels can be found at <https://github.com/kubernetes/kubernetes/labels>

Following are few example searches on PR for convenience:

\* [Open PRs for milestone etcd-v3.6](<https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6>)

\* [PRs under investigation](<https://github.com/etcd-io/etcd/labels/Investigating>)

## Scope

These guidelines serves as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document is created with `etcd` maintainers and active contributors in mind.

## Handle inactive PRs

Poke PR owner if review comments are not addressed in 15 days. If PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

## Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting review if quick response is not provided. If response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on the Slack.

## Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.

# Issue triage guidelines

## Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example,

an issue that is identified as a bug will be set to label ``type/bug``.

The etcd project uses labels to indicate common attributes such as ``area``, ``type`` and ``priority`` of incoming issues.

New issues will often start out without any labels, but typically ``etcd`` maintainers, reviewers and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

## ## Scope

This document serves as the primary guidelines for triaging incoming issues in ``etcd``.

All contributors are encouraged and welcome to help manage issues which will help reduce burden on project maintainers, though the work and responsibilities discussed in this document are created with ``etcd`` project reviewers and members in mind as these individuals will have triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](<https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md>) for guidance on becoming an etcd project member or reviewer.

## ## Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

- \* [Issues that have no labels](<https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel>)
- \* [Issues created recently](<https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen>)
- \* [Issues not assigned but linked pr](<https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr>)
- \* [Issues with no comments](<https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0>)
- \* [Issues with help wanted](<https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22>)

## ##

### Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

### ### Issues that don't belong to etcd

Sometimes issues are reported that actually belong to other projects that ``etcd`` use. For example, ``grpc`` or ``golang`` issues. Such issues should be addressed by asking reporter to open issues in appropriate other project.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purpose. If you have triage permissions please close it, alternatively mention the `@etcd-io/members` group to request a member with triage access close the issue.

### ### Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the [@etcd-io/members](#) group to request a member with triage access close the issue.

### ## Step 3 - Apply the appropriate type label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

### ### Support requests

As a general rule the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions and high quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](<https://github.com/etcd-io/etcd/discussions>).

Common types of support requests are:

1. Questions about configuring or operating existing well documented etcd features, for example <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.
2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](<https://etcd.io/docs/latest/op-guide/versioning>) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.
3. Bug reports that do not provide a complete list of steps to reproduce issue and/or contributors are not able to reproduce the issue, for example <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide necessary information to accept the bug report.
4. General questions that are filed using feature request or bug report issue templates, for example <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](<https://etcd.io/docs/v3.5/faq>).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.



2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](<https://github.com/etcd-io/etcd/discussions>).

>

> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and to make it easier for you to find answers to frequently asked questions and how to address common use cases.

>

> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.

>

> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:

>

> 1. [user documentation](<https://etcd.io/docs/latest>)

> 2. [frequently asked questions](<https://etcd.io/docs/v3.5/faq>)

>

> Again, thanks for using etcd and raising this question.

>

> The etcd team

3. Finally, click `Convert to discussion` on the right hand panel, selecting the appropriate discussion category.

#### ### Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with findings and close trivial issue. For non-trivial issue, wait to hear back from issue reporter and see if there is any objection. If issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue will be fresh for the issue reporter.

#### ### Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however if this is missing for an issue you determine to be a feature please add the label manually.

#### ### Test flakes

Test flakes are a specific type of bug that the

etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however if this is missing for an issue you determine to be related to a flaking test please add the label manually.

#### ## Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

| Label                   | Notes                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ---                     | ---                                                                                                                                                                                                           |
| area/external           | Tracking label for issues raised that are external to etcd.                                                                                                                                                   |
| area/community          |                                                                                                                                                                                                               |
| area/raft               |                                                                                                                                                                                                               |
| area/clientv3           |                                                                                                                                                                                                               |
| area/performance        |                                                                                                                                                                                                               |
| area/security           |                                                                                                                                                                                                               |
| area/tls                |                                                                                                                                                                                                               |
| area/auth               |                                                                                                                                                                                                               |
| area/etcdctl            |                                                                                                                                                                                                               |
| area/etcdutl            |                                                                                                                                                                                                               |
| area/contrib            | Not to be confused with `area/community` this label is specifically used for issues relating to community maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project. |
| area/documentation      |                                                                                                                                                                                                               |
| area/tooling            | Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test or release process, for example tooling to create sboms.                  |
| area/testing            |                                                                                                                                                                                                               |
| area/robustness-testing |                                                                                                                                                                                                               |

#### ## Step 5 - Prioritise the issue

Placeholder.

#### ## Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

#### ### Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

\* **Low Barrier to Entry** - It should be easy for new contributors.

\* **Clear** - The task is agreed upon and does not require further discussions in the community.

\* **Goldilocks priority** - The priority should not be so high that a core contributor should do it, but not too low that it isn't useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

### ### Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

\* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

\* **Solution Explained** - The recommended solution is clearly described in the issue.

\* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

\* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

\* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesn't have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

### ## Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

### ### Track important issues

If an issue is at risk of being closed by stale bot in future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

### ### Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if issue reporter do not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

### ### Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.

Dependency management

=====

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#### # Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,

see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).

Usually human intervention is required each time when dependabot automatically opens some PRs to bump dependencies.

Please see guidance below.

#### ## Dependencies used in workflows

The PRs which automatically bump dependencies (see examples below) used in workflows are fine, and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

#### ## Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:

if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then

it doesn't matter to bump which module first. For example, multiple modules depend on `github.com/spf13/cobra`, we need to bump the dependency

in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- 
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules/>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

### ## Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```
...
$ cd ${ETCD_ROOT_DIR}/etcdctl
$ go get github.com/spf13/cobra@v1.7.0
$ go mod tidy
$ cd ..
$./scripts/fix.sh
...
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```
...
$ git add .
$ git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
...
```

Please close the related PRs which were automatically opened by dependabot.

### When you bump multiple dependencies

in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example, you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

### ## Indirect dependencies

Usually we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If an indirect dependency (e.g. `D1`) causes any CVE or bugs which affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)

which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't

bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should

try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

-

Bump the dependency for all modules, no matter it's direct or indirect dependency.

- Bump the dependency only for modules which directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we should fix the issue and ensure all modules depend on the same version of the dependency.

## ## Known incompatible dependency updates

### ### arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](<https://github.com/etcd-io/etcd/pull/16016>)

### ### About gRPC

There is a compatible issue between etcd and gRPC 1.52.0, and there is a pending PR [pull/15131](<https://github.com/etcd-io/etcd/pull/15131>).

The plan is to remove the dependency on some grpc-go's experimental API firstly, afterwards try to bump it again. Please get more details in [issues/15145](<https://github.com/etcd-io/etcd/issues/15145>).

`go.opentelemetry.io/otel` version update is indirectly blocked due to this gRPC issue. Please get more details in [pull/15810](<https://github.com/etcd-io/etcd/pull/15810>).

## ## Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.

Usually human intervention is required each time. We have a [rotation worksheet]([https://docs.google.com/spreadsheets/d/1DDWzbcOx1p32MhyelaPZ\\_SfYtAD6xRsrtGRZ9QXPOyQ/edit#gid=0](https://docs.google.com/spreadsheets/d/1DDWzbcOx1p32MhyelaPZ_SfYtAD6xRsrtGRZ9QXPOyQ/edit#gid=0)),

and everyone is welcome to participate; you just need to register your name in the worksheet.

## # Stable branches

Usually we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to execute it for 3.4.

## # Golang modules

The etcd project (since version 3.5) is organized into multiple [golang modules](<https://golang.org/ref/mod>) hosted in a [single repository](<https://golang.org/ref/mod#vcs-dir>).

![modules graph](modules.svg)

There are following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions (like protos & proto-generated libraries) that defines communication protocol between etcd clients and server.
- **go.etcd.io/etcd/pkg/v3** - collection of utility packages used by etcd without being specific to etcd itself. A package belongs here only if it could possibly be moved out into its own repository in the future. Please avoid adding here code that has a lot of dependencies on its own, as they automatically becoming dependencies of the client library (that we want to keep lightweight).
- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over the network (grpc). Recommended for all new usage of etcd.
- **go.etcd.io/raft/v3**
  - implementation of distributed consensus protocol. Should have no etcd specific code. Hosted in a separate repository: <https://github.com/etcd-io/raft>.
- **go.etcd.io/etcd/server/v3** - etcd implementation. The code in this package is etcd internal and should not be consumed by external projects. The package layout and API can change within the minor versions.
- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.
- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd. Notice: All unit-tests (fast and not requiring cross-module dependencies) should be kept in the local modules to the code under the test.
- **go.etcd.io/bbolt** - implementation of persistent b-tree. Hosted in a separate repository: <https://github.com/etcd-io/bbolt>.

### ### Operations

1. All etcd modules should be released in the same versions, e.g. `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.`

The consistent updating of versions can be performed using:

```
```shell script
% DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
```
```

2. The released modules should be tagged according to <https://golang.org/ref/mod#vcs-version> rules, i.e. each module should get its own tag.

The tagging can be performed using:

```
```shell script
% DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
```
```

3. All etcd modules should depend on the same versions of underlying dependencies.

This can be verified using:

```
```shell script
% PASSES="dep" ./test.sh
```
```

4. The go.mod files must not contain dependencies not being used and must conform to `go mod tidy` format.

This is being verified by:

```
```
% PASSES="mod_tidy" ./test.sh
```
```

5. To trigger actions across all modules (e.g. auto-format all files), please use/expand the following script:

```
```shell script
% ./scripts/fix.sh
```
```

### Future

As

a North Star, we would like to evaluate etcd modules towards following model:

![modules graph](modules-future.svg)

This assumes:

- Splitting etcdmigrate/etcdadm out of etcdctl binary.  
Thanks to this etcdctl would become clearly a command-line wrapper around network client API, while etcdmigrate/etcdadm would support direct physical operations on the etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

# Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:



- Specific. Include as much details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with etcd configuration is especially important).
- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please includes the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack strace to the bug report.
- Isolated. Please try to isolate and reproduce the bug with minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.
- Unique. Do not duplicate existing bug report.
- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

## ## Frequently asked questions

### ### How to get a stack trace

```
``` bash
$ kill -QUIT $PID
```
```

### ### How to get etcd version

```
``` bash
$ etcd --version
```
```

### ### How to get etcd configuration and log when it runs as systemd service etcd2.service

```
``` bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```
```

Due to an upstream systemd bug, journald may miss the last few log lines when its processes exit. If journalctl says etcd stopped without fatal or panic message, try `sudo journalctl -f -t etcd2` to get full log.

[etcd-issue]: <https://github.com/etcd-io/etcd/issues/new>

[filing-good-bugs]: <http://fantasai.inkedblade.net/style/talks/filing-good-bugs/>

## # Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *\*levels\**. A log message's level is determined according to these conventions:

- \* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.

- \* Examples:

- \* Send a normal message to a remote peer
- \* Write a log entry to disk

- \* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in normal server's operation.

- \* Examples:

- \* Startup configuration
- \* Start to do snapshot

- \* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.

- \* Examples:

- \* Failure to send raft message to a remote peer
- \* Failure to receive heartbeat message within the configured election timeout

- \* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.

- \* Examples:

- \* Failure to allocate disk space for WAL

- \* Panic: Unrecoverable or unexpected error situation that requires stopping execution.

- \* Examples:

- \* Failure to create the database

- \* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.

- \* Examples:

- \* Failure to find the data directory
- \* Failure to run a test function

[zap]: <https://github.com/uber-go/zap>

## # Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

## ## Release management

etcd community members are assigned to manage the release each etcd major/minor version as well as manage patches and to each stable release branch. The managers are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

| Releases               | Manager                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------|
| 3.4 patch (post 3.4.0) | Benjamin Wang (@ahrtr)( <a href="https://github.com/ahrtr">https://github.com/ahrtr</a> )                |
| 3.5 patch (post 3.5.0) | Marek Siarkowicz (@serathius)( <a href="https://github.com/serathius">https://github.com/serathius</a> ) |

All releases version numbers follow the format of [semantic versioning 2.0.0](<http://semver.org/>).

###

Major, minor version release, or its pre-release

- Ensure the relevant milestone on GitHub is complete. All referenced issues should be closed, or moved elsewhere.
- Ensure the latest upgrade documentation is available.
- Bump [hardcoded MinClusterVersion in the repository](<https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29>), if necessary.
- Add feature capability maps for the new version, if necessary.

### Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherry-pick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). `hack/patch/cherry-pick.sh` may be used to automatically generate cherry-pick PRs.
- The release patch manager reviews the cherry-pick PRs. Please discuss carefully what is backported to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

## Write release note

- Write introduction for the new release. For example, what major bug we fix, what new features we introduce or what performance improvement we make.
- Put `[GH XXXX]` at the head of change line to reference Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with `release-note` label and explain them in `NEWS` file, as a straightforward summary of changes for end-users.

## Build and push the release artifacts

- Ensure `docker` is available.

Run release script in root directory:

...

```
DRY_RUN=false ./scripts/release.sh ${VERSION}
...
```

It generates all release binaries and images under directory ./release.

Binaries are pushed to gcr.io and images are pushed to quay.io and gcr.io.

## Publish release page in GitHub

- Set release title as the version name.
- Follow the format of previous release pages.
- Attach the generated binaries and signatures.
- Select whether it is a pre-release.
- Publish the release!

## Announce to the etcd-dev Googlegroup

- Follow the format of [previous release emails](https://groups.google.com/forum/#!forum/etcd-dev).
- Make sure to include a list of authors that contributed since the previous release - something like the following might be handy:

...

```
git log ...${PREV_VERSION} --pretty=format:"%an" | sort | uniq | tr '\n' ',' | sed -e 's#,#, #g' -e 's#,$###'
```

...

- Send email to etcd-dev@googlegroups.com

## Post release

- Create new stable branch through `git push origin \${VERSION\_MAJOR}.\${VERSION\_MINOR}` if this is a major stable release. This assumes `origin` corresponds to "https://github.com/etcd-io/etcd".
- Bump [hardcoded Version in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L30) to the version `\${VERSION}+git`.
- # Set up local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

## Local standalone cluster

### Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

...

```
$./etcd
```

...

...

If the `etcd` binary is not present in the current working directory, it might be located either at  `GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running `etcd` member listens on `localhost:2379` for client requests.

### ### Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

```
...
$./etcdctl put foo bar
OK
...
```

If `OK` is printed, storing key-value pair is successful.

2. Retrieve the value of `foo`:

```
...
$./etcdctl get foo
bar
...
```

If `bar` is returned, interaction with the `etcd` cluster is working as expected.

### ## Local multi-member cluster

#### ### Starting a cluster

A `Procfile` at the base of the `etcd` git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the `etcd` source tree and perform the following:

1. Install `goreman` to control `Procfile`-based applications:

```
...
$ go install github.com/mattn/goreman@latest
...
```

The installation will place executables in the  `GOPATH/bin`. If  `GOPATH` environment variable is not set, the tool will be installed into the `$HOME/go/bin`. Make sure that `$PATH` is set accordingly in your environment.

2. Start a cluster with `goreman` using `etcd`'s stock `Procfile`:

```
...
$ goreman -f Procfile start
```

...

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

### ### Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print the list of members:

...

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

...

The list of etcd members are displayed as follows:

...

```
+-----+-----+-----+-----+-----+
| ID | STATUS | NAME | PEER ADDRS | CLIENT ADDRS |
+-----+-----+-----+-----+-----+
8211f1d0f64f3269	started	infra1	http://127.0.0.1:2380	http://127.0.0.1:2379
91bc3c398fb3c146	started	infra2	http://127.0.0.1:22380	http://127.0.0.1:22379
fd422379fda50e48	started	infra3	http://127.0.0.1:32380	http://127.0.0.1:32379
+-----+-----+-----+-----+-----+
```

...

2. Store an example key-value pair in the cluster:

...

```
$ etcdctl put foo bar
```

OK

...

If OK is printed, storing key-value pair is successful.

### ###

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
...
kill etcd2
$ goreman run stop etcd2
...
```

3. Store a key:

```
...
$ etcdctl put key hello
OK
...
```

4. Retrieve the key that is stored in the previous step:

```
...
$ etcdctl get key
hello
...
```

5. Retrieve a key from the stopped member:

```
...
$ etcdctl --endpoints=localhost:22379 get key
...
```

The command should display an error caused by connection failure:

```
...
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc =
"transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error: grpc: timed out trying
to connect
...
```

6. Restart the stopped member:

```
...
$ goreman run restart etcd2
...
```

7. Get the key from the restarted member:

```
...
$ etcdctl --endpoints=localhost:22379 get key
hello
...
```

Restarting the member re-establish the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [\[interacting with etcd section\]](#)[\[interacting\]](#).

[clustering]: <https://etcd.io/docs/latest/op-guide/clustering/>  
[interacting]: [https://etcd.io/docs/latest/dev-guide/interacting\\_v3/](https://etcd.io/docs/latest/dev-guide/interacting_v3/)

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# Branch management

## Guide

- \* New development occurs on the [main branch][main].
- \* Main branch should always have a green build!
- \* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
- \* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a \*rolling release model\* and supports two stable versions of etcd.

### Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md/#release-management) will be assigned to major/minor version and will lead the etcd community in test, bug-fix and documentation of the release for one to two weeks.

### Stable branches

All branches with prefix `release-`

are considered `_stable_` branches.

After every minor release ([semver.org](https://semver.org/)), we will have a new stable branch for that release, managed by a [patch release manager](./release.md/#release-management). We will keep fixing the backwards-compatible bugs for the latest two stable releases. A `_patch_` release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: <https://github.com/etcd-io/etcd/tree/main>

# Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

| Role                    | Responsibilities                                                                     | Requirements                                                  | Defined by |
|-------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|------------|
| ----- ----- ----- ----- |                                                                                      |                                                               |            |
| Member                  | Active contributor in the community<br>etcd GitHub org member                        | Sponsored by 2 reviewers and multiple contributions           |            |
| Reviewer                | Review contributions from other members<br>[MAINTAINERS] file reviewer entry         | History of review and authorship                              |            |
| Maintainer              | Set direction and priorities for the project<br>[MAINTAINERS] file maintainers entry | Demonstrated responsibility and excellent technical judgement |            |

## ## New contributors

New contributors should be welcomed to the community by existing members, helped with PR workflow, and directed to relevant documentation and communication channels.

## ## Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

### ## Member

Members are continuously active contributors in the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

**\*\*Defined by:\*\*** Member of the etcd GitHub organization.

### ### Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **\*\*merged\*\***.
  -

Filing or commenting on issues on GitHub

- Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com]
- Have read the [contributor guide]
- Sponsored by one active maintainer or two reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the etcd-io/etcd repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

### ### Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

**\*\*Note:\*\*** members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a **\*reviewer\***.

### ## Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

**\*\*Defined by:\*\*** **\*reviewers\*** entry in the [MAINTAINERS] file.

### ### Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.

- Sponsors must be from multiple member companies to demonstrate integration across community.
- With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

### ### Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

### ## Maintainers

Maintainers are first and foremost contributors that have shown they are committed to the long term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

**\*\*Defined by:\*\*** \*maintainers\* entry in the [MAINTAINERS] file.

### ### Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in designs and implementation PRs
- Directly contributed to the project through implementation and / or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across community.
- To become a maintainer send an email with your candidacy to [etcd-maintainers-private@googlegroups.com]
  - Ensure your sponsors are @mentioned on the email
  - Include a list of contributions representative of your work on the project.
  - Existing

maintainers vote will privately and respond to the email with either acceptance or with feedback for suggested improvement.

- With your membership approved you are expected to:
  - Open a PR and add an entry to the [MAINTAINERS] file
  - Subscribe to [etcd-maintainers@googlegroups.com] and [etcd-maintainers-private@googlegroups.com]
  - Request to join to [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)

- Request to join to the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
- Request access to etcd-development GCP project where we publish releases
- Request access to passwords shared between maintainers

### ### Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

### ### Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward they can remove themselves from list of existing maintainers.

If a maintainer has not been performing their duties for period of 12 months, they can be removed by other maintainers. In that case inactive maintainer will be first notified via an email. If situation doesn't improve, they will be removed.

If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring of other maintainers or regaining the status should require approval of at least two active maintainers.

### ## Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[MAINTAINERS]: /MAINTAINERS

[contributor guide]: /CONTRIBUTING.md

[membership nomination]: [https://github.com/etcd-](https://github.com/etcd-io/etcd/issues/new?assignees=&labels=area%2Fcommunity&template=membership-request.yml)

[io/etcd/issues/new?assignees=&labels=area%2Fcommunity&template=membership-request.yml](https://github.com/etcd-io/etcd/issues/new?assignees=&labels=area%2Fcommunity&template=membership-request.yml)

[Kubernetes community membership]: <https://github.com/kubernetes/community/blob/master/community-membership.md>

[emeritus maintainers]: /README.md#etcd-emeritus-maintainers

[security disclosure and release process]: /security/README.md

[two-factor authentication]: <https://docs.github.com/en/authentication/securing-your-account-with-two-factor->



## # Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

## ## Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

### ### Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:

- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to the stable future.

### ### Stable

A stable feature is characterized as below:

- Supported as part of the supported releases of etcd.
- - May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

### ### Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following feature deprecation policy.

## ## Development Guidelines

### ### Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions, and will evolve over time.

- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to the stable future.
  - Label the issue with `type/feature` and `experimental`.

- Keep the issue open for tracking purpose until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at the later time before feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
  - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

### ### Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage. They should be revisited and moved to the stable stage following the graduation steps as described here.

#### #### Locate graduation candidate

Decide if an experimental feature is ready for graduation to the stable stage.

- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature related code changes were merged.

#### #### Provide implementation

If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.

- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

### ### Deprecating a feature

#### #### Experimental

An experimental feature deprecates when it graduates to the stable stage.

- Add a deprecation message in the documentation of the experimental feature with a recommendation to use related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

#### Stable

As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:

- Create an issue for tracking purpose.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.

# 1.634 sed 4.4-1

## 1.634.1 Available under license :

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Version 3, 29 June 2007

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and valid for as

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<ftp://ftp.gnu.org/gnu/sed/>

It is currently maintained by Clint Adams <[clint@debian.org](mailto:clint@debian.org)>

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# 1.635 libsepol 2.6-2

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arch-tag:

d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

# 1.636 iproute 4.9.0-1+deb9u1

## 1.636.1 Available under license :

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```
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Please keep the list sorted.
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## 20190312151609-d3739f865fa6

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\*/

// Package legal provides in-process storage for compiled-in licenses.  
package legal // import "go4.org/legal"

var licenses []string

// RegisterLicense stores the license text.  
// It doesn't check whether the text was already present.  
func RegisterLicense(text string) {  
 licenses = append(licenses, text)  
 return  
}

// Licenses returns a slice of the licenses.  
func Licenses() []string {  
 return licenses  
}  
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\*/

package legal

import (  
 "testing"  
)

```
func TestRegisterLicense(t *testing.T) {
 initial := len(licenses)
 RegisterLicense("dummy")
 if initial+1 != len(licenses) {
 t.Fatal("didn't add a license")
 }
}
```

## 1.658 [github.com/tarm/serial](https://github.com/tarm/serial) v0.0.0-20180830185346-98f6abe2eb07

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## 1.659 [go-debug](https://github.com/go-debug/go-debug) v0.0.0-20170820004349-d65d576e9348



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## 20161002113705-648efa622239

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# 1.675 [win\\_pdh](https://github.com/robfig/cron) v0.0.0-20161109143554-76bb4ee9f0ab

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# 1.676 [github.com/marten-seemann/qtls](https://github.com/marten-seemann/qtls) v0.2.3

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- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_client\_tls13.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_server\_tls13.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/key\_schedule.go
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- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_messages\_test.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/common.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/prf.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/tls.go
- \* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_client.go

\* /qtls-0-2-3-tar-gz/qtls-0.2.3/generate\_cert.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_server.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/prf\_test.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_server\_test.go  
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\* /qtls-0-2-3-tar-gz/qtls-0.2.3/conn\_test.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/conn.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/handshake\_client\_test.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/key\_agreement.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/cipher\_suites.go  
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\* /qtls-0-2-3-tar-gz/qtls-0.2.3/auth.go  
\* /qtls-0-2-3-tar-gz/qtls-0.2.3/auth\_test.go

# 1.677 github.com/mholt/certmagic v0.6.2-0.20190624175158-6a42ef9fe8c2

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## **1.678 [bitbucket.org/bertimus9/systemstat](https://bitbucket.org/bertimus9/systemstat) v0.0.0-20180207000608-0eef89b0690**

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## 1.682

[github.com/libopenstorage/openstorage](https://github.com/libopenstorage/openstorage)

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// Derived from FUSE's fuse\_kernel.h

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###

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###

### Go standard library and http2

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###

### [github.com/dustin/go-humanize](https://github.com/dustin/go-humanize)

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# 1.687 [github.com/jimstudt/http-authentication](https://github.com/jimstudt/http-authentication) v0.0.0-20140401203705-3eca13d6893a

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# 1.688 gonum v0.6.2

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I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",  
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The main features of this software are:

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## 1.689 json iterator go 1.1.7

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# 1.693 githubcommattnngorunewidth 0.0.2

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# 1.695 go-uber-org-zap 1.10.0

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# 1.696 spf13-jwalterweatherman 1.0.0

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# 1.698 google-golang-org-grpc 1.26.0

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# 1.699 coreos-go-systemd 0.0.0- 20190321100706-95778dfbb74e

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# 1.700 spf13-cast 1.3.0

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# 1.701 gopkg-in-cheggaaa-pb-v1 1.0.25

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## 1.702 spf13-viper 1.7.1

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## 1.706 uuid 1.0.0

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# 1.709 common 0.4.1

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\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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# 1.711 kubectl 1.7.3

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# 1.712 x-tools v0.0.0-20190821162956-65e3620a7ae7

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package hooks

import (

"bytes"

"io/ioutil"

"os/exec"

"runtime"

"testing"

"golang.org/x/tools/internal/testenv"

)

func TestLicenses(t \*testing.T) {

// License text differs for older Go versions because staticcheck or gofumpt

// isn't supported for those versions, and this fails for unknown, unrelated

// reasons on Kokoro legacy CI.

testenv.NeedsGo1Point(t, 19)

if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {

t.Skip("generating licenses only works on Unixes")

}

tmp, err := ioutil.TempFile("", "")

if err != nil {

t.Fatal(err)

}

tmp.Close()

if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {



```

t.Fatalf("generating licenses failed: %q, %v", out, err)
}

got, err := ioutil.ReadFile(tmp.Name())
if err != nil {
t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if
err != nil {
t.Fatal(err)
}
if !bytes.Equal(got, want) {
t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
"go/ast"
"go/parser"
"go/token"
"io/fs"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
)

func checkCopyright(dir string) ([]string, error) {
var files []string
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
if err != nil {
return err
}
if d.IsDir() {
// Skip directories like ".git".
if strings.HasPrefix(d.Name(), ".") {
return filepath.SkipDir
}
}
}

```

```

// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
 return err
}
if needsCopyright {
 files
 = append(files, path)
}
return nil
})
return files, err
}

```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.`)

```

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
 return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
 return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
 return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
 return false, err
 }
 // Don't require headers

```

```

on generated files.
if isGenerated(fset, parsed) {
 return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\?.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
 if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
 }
 // Check if comment is at the beginning of the line in source.
 if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
 }
 }
 }
 return false
}

```

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//go:generate ./gen-licenses.sh licenses.go  
package hooks

const licensesText = `  
-- github.com/BurntSushi/toml COPYING --

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,

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```

```
//go:build go1.18
// +build go1.18
```

```
package copyright
```

```
import (
 "strings"
 "testing"
)
```

```
func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
 t.Fatal(err)
 }
 if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

## 1.713 k8s-io-client-go v0.0.0

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## fde4db37ae7a

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## 1.723 godirwalk v1.7.5

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## 1.724 github.com/mistifyio/go-zfs

### v2.1.1+incompatible

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## v3.5.0+incompatible

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# 1.726 [github.com/euank/go-kmsg-parser](https://github.com/euank/go-kmsg-parser) v2.0.0+incompatible

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# 1.727 mux v1.7.0

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```

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* httpd@ncsa.uiuc.edu
*
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*
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For the srclib\apr-util\xml\expat\conf\tools\install-sh component:

```
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install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
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For the pcre component:

#### PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,  
Cambridge, England. Phone: +44 1223 334714.

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=====
```

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

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

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package sacloud

```
// ProductLicense
type ProductLicense struct {
 *Resource // ID
 propName //
```

```
propServiceClass //
propCreatedAt //
propModifiedAt //
TermsOfUse string `json:",omitempty"` //
}
```

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package sacloud

```
// License
```

```
type License struct {
 *Resource // ID
 propName //
 propDescription //
 propCreatedAt //
 propModifiedAt //
```

```
 LicenseInfo *ProductLicense `json:",omitempty"` //
}
```

```
// GetLicenseInfo
```

```
func (l *License) GetLicenseInfo() *ProductLicense {
 return l.LicenseInfo
}
```

```
// SetLicenseInfo
```

```
func (l *License) SetLicenseInfo(license *ProductLicense) {
 l.LicenseInfo = license
}
```

```
// SetLicenseInfoByID
```

```
func (l *License) SetLicenseInfoByID(id int64) {
 l.LicenseInfo = &ProductLicense{Resource: NewResource(id)}
}
```

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package api

```

/*****
generated by IDE. for [LicenseAPI]
*****/

import (
 "github.com/sacloud/libsacloud/sacloud"
)

/*****
To support fluent interface for Find()
*****/

// Reset
func (api *LicenseAPI) Reset() *LicenseAPI {
 api.reset()
 return api
}

// Offset
func (api *LicenseAPI) Offset(offset int) *LicenseAPI {
 api.offset(offset)
 return api
}

// Limit
func (api *LicenseAPI) Limit(limit int) *LicenseAPI {
 api.limit(limit)
 return api
}

// Include
func (api *LicenseAPI) Include(key string) *LicenseAPI {
 api.include(key)
 return api
}

// Exclude
func (api *LicenseAPI) Exclude(key string) *LicenseAPI {
 api.exclude(key)
 return api
}

// FilterBy
func (api *LicenseAPI) FilterBy(key string, value interface{}) *LicenseAPI {
 api.filterBy(key, value, false)
 return api
}

```

```

// FilterMultiBy (OR)
func (api
*LicenseAPI) FilterMultiBy(key string, value interface{}) *LicenseAPI {
 api.filterBy(key, value, true)
 return api
}

// WithNameLike
func (api *LicenseAPI) WithNameLike(name string) *LicenseAPI {
 return api.FilterBy("Name", name)
}

// WithTag
func (api *LicenseAPI) WithTag(tag string) *LicenseAPI {
 return api.FilterBy("Tags.Name", tag)
}

// WithTags ()
func (api *LicenseAPI) WithTags(tags []string) *LicenseAPI {
 return api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *LicenseAPI) WithSizeGib(size int) *LicenseAPI {
// api.FilterBy("SizeMB", size*1024)
// return api
// }

// func (api *LicenseAPI) WithSharedScope() *LicenseAPI {
// api.FilterBy("Scope", "shared")
// return api
// }

// func (api *LicenseAPI) WithUserScope() *LicenseAPI {
// api.FilterBy("Scope", "user")
// return api
// }

// SortBy
func (api *LicenseAPI) SortBy(key string, reverse bool) *LicenseAPI {
 api.sortBy(key, reverse)
 return api
}

// SortByName
func (api *LicenseAPI) SortByName(reverse
bool) *LicenseAPI {
 api.sortByName(reverse)
 return api
}

```

```

}

// func (api *LicenseAPI) SortBySize(reverse bool) *LicenseAPI {
// api.sortBy("SizeMB", reverse)
// return api
// }

/*****
To support Setxxx interface for Find()
*****/

// SetEmpty
func (api *LicenseAPI) SetEmpty() {
api.reset()
}

// SetOffset
func (api *LicenseAPI) SetOffset(offset int) {
api.offset(offset)
}

// SetLimit
func (api *LicenseAPI) SetLimit(limit int) {
api.limit(limit)
}

// SetInclude
func (api *LicenseAPI) SetInclude(key string) {
api.include(key)
}

// SetExclude
func (api *LicenseAPI) SetExclude(key string) {
api.exclude(key)
}

// SetFilterBy
func (api *LicenseAPI) SetFilterBy(key string, value interface{}) {
api.filterBy(key, value, false)
}

// SetFilterMultiBy (OR)
func (api *LicenseAPI) SetFilterMultiBy(key string, value interface{}) {
api.filterBy(key, value, true)
}

// SetNameLike
func

```

```

(api *LicenseAPI) SetNameLike(name string) {
 api.FilterBy("Name", name)
}

// SetTag
func (api *LicenseAPI) SetTag(tag string) {
 api.FilterBy("Tags.Name", tag)
}

// SetTags ()
func (api *LicenseAPI) SetTags(tags []string) {
 api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *LicenseAPI) SetSizeGib(size int) {
// api.FilterBy("SizeMB", size*1024)
// }

// func (api *LicenseAPI) SetSharedScope() {
// api.FilterBy("Scope", "shared")
// }

// func (api *LicenseAPI) SetUserScope() {
// api.FilterBy("Scope", "user")
// }

// SetSortBy
func (api *LicenseAPI) SetSortBy(key string, reverse bool) {
 api.sortBy(key, reverse)
}

// SetSortByName
func (api *LicenseAPI) SetSortByName(reverse bool) {
 api.sortByName(reverse)
}

// func (api *LicenseAPI) SetSortBySize(reverse bool) {
// api.sortBy("SizeMB", reverse)
// }

/*****
To support CRUD(Create/Read/Update/Delete)
*****/

// New
func
(api *LicenseAPI) New() *sacloud.License {
 return &sacloud.License{}
}

```



```

}

// Create
func (api *LicenseAPI) Create(value *saccloud.License) (*saccloud.License, error) {
 return api.request(func(res *saccloud.Response) error {
 return api.create(api.createRequest(value), res)
 })
}

// Read
func (api *LicenseAPI) Read(id int64) (*saccloud.License, error) {
 return api.request(func(res *saccloud.Response) error {
 return api.read(id, nil, res)
 })
}

// Update
func (api *LicenseAPI) Update(id int64, value *saccloud.License) (*saccloud.License, error) {
 return api.request(func(res *saccloud.Response) error {
 return api.update(id, api.createRequest(value), res)
 })
}

// Delete
func (api *LicenseAPI) Delete(id int64) (*saccloud.License, error) {
 return api.request(func(res *saccloud.Response) error {
 return api.delete(id, nil, res)
 })
}

/*****
Inner functions
*****/

func (api *LicenseAPI) setStateValue(setFunc
func(*saccloud.Request)) *LicenseAPI {
 api.baseAPI.setStateValue(setFunc)
 return api
}

func (api *LicenseAPI) request(f func(*saccloud.Response) error) (*saccloud.License, error) {
 res := &saccloud.Response{}
 err := f(res)
 if err != nil {
 return nil, err
 }
 return res.License, nil
}

```

```

func (api *LicenseAPI) createRequest(value *sacloud.License) *sacloud.Request {
 req := &sacloud.Request{}
 req.License = value
 return req
}
package api

```

```

/*****
generated by IDE. for [ProductLicenseAPI]
*****/

```

```

import (
 "github.com/sacloud/libsacloud/sacloud"
)

```

```

/*****
To support fluent interface for Find()
*****/

```

```

// Reset
func (api *ProductLicenseAPI) Reset() *ProductLicenseAPI {
 api.reset()
 return api
}

```

```

// Offset
func (api *ProductLicenseAPI) Offset(offset int) *ProductLicenseAPI {
 api.offset(offset)
 return api
}

```

```

// Limit
func (api *ProductLicenseAPI) Limit(limit int) *ProductLicenseAPI {
 api.limit(limit)
 return api
}

```

```

// Include
func (api *ProductLicenseAPI) Include(key string) *ProductLicenseAPI {
 api.include(key)
 return api
}

```

```

// Exclude
func (api *ProductLicenseAPI) Exclude(key string) *ProductLicenseAPI {
 api.exclude(key)
 return api
}

```

```

}

// FilterBy
func (api *ProductLicenseAPI) FilterBy(key string, value interface{}) *ProductLicenseAPI
{
 api.filterBy(key, value, false)
 return api
}

// FilterMultiBy (OR)
func (api *ProductLicenseAPI) FilterMultiBy(key string, value interface{}) *ProductLicenseAPI {
 api.filterBy(key, value, true)
 return api
}

// WithNameLike
func (api *ProductLicenseAPI) WithNameLike(name string) *ProductLicenseAPI {
 return api.FilterBy("Name", name)
}

// WithTag
func (api *ProductLicenseAPI) WithTag(tag string) *ProductLicenseAPI {
 return api.FilterBy("Tags.Name", tag)
}

// WithTags ()
func (api *ProductLicenseAPI) WithTags(tags []string) *ProductLicenseAPI {
 return api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *ProductLicenseAPI) WithSizeGib(size int) *ProductLicenseAPI {
// api.FilterBy("SizeMB", size*1024)
// return api
// }

// func (api *ProductLicenseAPI) WithSharedScope() *ProductLicenseAPI {
// api.FilterBy("Scope", "shared")
// return api
// }

// func (api *ProductLicenseAPI) WithUserScope() *ProductLicenseAPI {
// api.FilterBy("Scope", "user")
// return api
// }

// SortBy
func (api *ProductLicenseAPI) SortBy(key string, reverse bool) *ProductLicenseAPI {

```

```

api.sortBy(key, reverse)
return api
}

// SortByName
func (api *ProductLicenseAPI) SortByName(reverse bool) *ProductLicenseAPI {
 api.sortByName(reverse)
 return api
}

// func (api *ProductLicenseAPI) SortBySize(reverse bool) *ProductLicenseAPI {
// api.sortBy("SizeMB", reverse)
// return api
// }

/*****
To support Setxxx interface for Find()
*****/

// SetEmpty
func (api *ProductLicenseAPI) SetEmpty() {
 api.reset()
}

// SetOffset
func (api *ProductLicenseAPI) SetOffset(offset int) {
 api.offset(offset)
}

// SetLimit
func (api *ProductLicenseAPI) SetLimit(limit int) {
 api.limit(limit)
}

// SetInclude
func (api *ProductLicenseAPI) SetInclude(key string) {
 api.include(key)
}

// SetExclude
func (api *ProductLicenseAPI) SetExclude(key string) {
 api.exclude(key)
}

// SetFilterBy

func (api *ProductLicenseAPI) SetFilterBy(key string, value interface{}) {
 api.filterBy(key, value, false)
}

```

```

}

// SetFilterMultiBy (OR)
func (api *ProductLicenseAPI) SetFilterMultiBy(key string, value interface{}) {
 api.filterBy(key, value, true)
}

// SetNameLike
func (api *ProductLicenseAPI) SetNameLike(name string) {
 api.FilterBy("Name", name)
}

// SetTag
func (api *ProductLicenseAPI) SetTag(tag string) {
 api.FilterBy("Tags.Name", tag)
}

// SetTags ()
func (api *ProductLicenseAPI) SetTags(tags []string) {
 api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *ProductLicenseAPI) SetSizeGib(size int) {
// api.FilterBy("SizeMB", size*1024)
// }

// func (api *ProductLicenseAPI) SetSharedScope() {
// api.FilterBy("Scope", "shared")
// }

// func (api *ProductLicenseAPI) SetUserScope() {
// api.FilterBy("Scope", "user")
// }

// SetSortBy
func (api *ProductLicenseAPI) SetSortBy(key string, reverse bool) {
 api.sortBy(key, reverse)
}

// SetSortByName
func
(api *ProductLicenseAPI) SetSortByName(reverse bool) {
 api.sortByName(reverse)
}

// func (api *ProductLicenseAPI) SetSortBySize(reverse bool) {
// api.sortBy("SizeMB", reverse)
// }

```

```
/******
```

```
To support CRUD(Create/Read/Update/Delete)
```

```
*****/
```

```
// func (api *ProductLicenseAPI) Create(value *sacloud.ProductLicense) (*sacloud.ProductLicense, error) {
// return api.request(func(res *sacloud.Response) error {
// return api.create(api.createRequest(value), res)
// })
// }
```

```
// Read
```

```
func (api *ProductLicenseAPI) Read(id int64) (*sacloud.ProductLicense, error) {
return api.request(func(res *sacloud.Response) error {
return api.read(id, nil, res)
})
}
```

```
// func (api *ProductLicenseAPI) Update(id int64, value *sacloud.ProductLicense) (*sacloud.ProductLicense, error)
{
// return api.request(func(res *sacloud.Response) error {
// return api.update(id, api.createRequest(value), res)
// })
// }
```

```
//
```

```
func (api *ProductLicenseAPI) Delete(id int64) (*sacloud.ProductLicense, error) {
// return api.request(func(res *sacloud.Response) error {
// return api.delete(id, nil, res)
// })
// }
```

```
/******
```

```
Inner functions
```

```
*****/
```

```
func (api *ProductLicenseAPI) setStateValue(setFunc func(*sacloud.Request)) *ProductLicenseAPI {
api.baseAPI.setStateValue(setFunc)
return api
}
```

```
func (api *ProductLicenseAPI) request(f func(*sacloud.Response) error) (*sacloud.ProductLicense, error) {
res := &sacloud.Response{}
err := f(res)
if err != nil {
return nil, err
}
return res.LicenseInfo, nil
```

}

```
func (api *ProductLicenseAPI) createRequest(value *sacloud.ProductLicense) *sacloud.Request {
 req := &sacloud.Request{}
 req.LicenseInfo = value
 return req
}
```

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```
// ProductLicenseAPI API
type ProductLicenseAPI struct {
 *baseAPI
}

// NewProductLicenseAPI API
func NewProductLicenseAPI(client *Client) *ProductLicenseAPI {
 return &ProductLicenseAPI{
 &baseAPI{
 client: client,
 FuncGetResourceURL: func() string {
 return "product/license"
 },
 },
 }
}

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package api

```
// LicenseAPI API
type LicenseAPI struct {
 *baseAPI
}

// NewLicenseAPI API
func NewLicenseAPI(client *Client) *LicenseAPI {
 return &LicenseAPI{
 &baseAPI{
 client: client,
 FuncGetResourceURL: func() string {
 return "license"
 },
 },
 }
}
```

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# 1.730 gopkg.in/mcuadros/go-syslog.v2 v2.2.1

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# 1.731 [github.com/golangplus/fmt](https://github.com/golangplus/fmt) v0.0.0-20150411045040-2a5d6d7d2995

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# 1.734 vbom-ml-util v0.0.0-20160121211510-db5cfe13f5cc

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## 1.741 google-golang-org-api v0.6.1-0.20190607001116-5213b8090861

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that the second address should be recognized as the
same person when interacting with Rietveld.

Please keep the list sorted.

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# 1.742 quicktemplate v1.1.1

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# 1.743 github.com/google/cadvisor v0.35.0

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```

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```

```
Name <email address>
```

```
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```

```
Damian Gryski <dgryski@gmail.com>
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# It is just my small "thank you" to all those that helped  
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```
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```

```
Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Dragoslav Mitrinovic <drago@motorola.com>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
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# 1.746 x-tools v0.0.0-20190617190820-da514acc4774

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package hooks

```

import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
 "testing"

 "golang.org/x/tools/internal/testenv"
)

func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck or gofumpt
 // isn't supported for those versions, and this fails for unknown, unrelated
 // reasons on Kokoro legacy CI.
 testenv.NeedsGo1Point(t, 19)

 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
 t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
 t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
 t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := ioutil.ReadFile(tmp.Name())
 if err != nil {
 t.Fatal(err)
 }
 want, err := ioutil.ReadFile("licenses.go")
 if err != nil {
 t.Fatal(err)
 }
 if !bytes.Equal(got, want) {
 t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
 }
}

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//go:build go1.18
// +build go1.18

```

```
// Package copyright checks that files have the correct copyright notices.
```

```
package copyright
```

```
import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "io/ioutil"
 "path/filepath"
 "regexp"
 "strings"
)
```

```
func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
 if err != nil {
 return err
 }
 if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
 return filepath.SkipDir
 }
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
 }
 return nil
 }
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
 return err
 }
 if needsCopyright {
 files
= append(files, path)
 }
 return nil
 })
 return files, err
}
```

```
var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.`)
```

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```

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```
func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
 return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
 return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
 return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
 return false, err
 }
 // Don't require headers
 on generated files.
 if isGenerated(fset, parsed) {
 return false, nil
 }
 shouldAddCopyright := true
 for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
```

```

var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\?.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
 if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
 }
 // Check if comment is at the beginning of the line in source.
 if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
 }
 }
 }
 return false
}

```

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```
//go:generate ./gen-licenses.sh licenses.go
package hooks
```

```
const licensesText = `
-- github.com/BurntSushi/toml COPYING --
```

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```
-- github.com/google/go-cmp LICENSE --
```

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```

```
//go:build go1.18
// +build go1.18
```

```
package copyright
```

```
import (
 "strings"
 "testing"
)
```

```
func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("../")
 if err != nil {
 t.Fatal(err)
 }
}
```

```
}
if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
}
}
```

# 1.747 kubernetes-cri-api v0.0.0

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# 1.752 kubernetes-kube-aggregator v0.0.0

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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\*

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\*

\* API version: 2.8.0

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\*/

```

package api
import (
 "time"
)
// Licence A representation of a cluster's licence properties
type Licence struct {
 // A unique identifier for a cluster. The format of this type is undefined and may change but the defined properties
 // will not change.
 ClusterID string `json:"clusterID,omitempty"`
 // The time after which a licence will no longer be valid This timestamp is set when the licence is created. String
 // format is RFC3339.
 ExpiresAt time.Time `json:"expiresAt,omitempty"`
 // The allowed provisioning capacity in bytes This value if for the cluster, if provisioning a volume brings the
 // cluster's total provisioned capacity above it the request will fail
 ClusterCapacityBytes uint64 `json:"clusterCapacityBytes,omitempty"`
 // Sum of the size of all volumes in
 // the cluster
 UsedBytes uint64 `json:"usedBytes,omitempty"`
 // Denotes which category the licence belongs to
 Kind string `json:"kind,omitempty"`
 // A user friendly reference to the customer
 CustomerName string `json:"customerName,omitempty"`
 // A list of product features which are enabled by the licence, subject to the installed version.
 Features []string `json:"features,omitempty"`
 // An opaque representation of an entity version at the time it was obtained from the API. All operations that mutate
 // the entity must include this version field in the request unchanged. The format of this type is undefined and may
 // change but the defined properties will not change.
 Version string `json:"version,omitempty"`
}
Licence

Properties

```

| Name                        | Type             | Description                                                                                                                                                                       | Notes                 |
|-----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>ClusterID</b>            | <b>string</b>    | A unique identifier for a cluster. The format of this type is undefined and may change but the defined properties will not change.                                                | [optional] [readonly] |
| <b>ExpiresAt</b>            | <b>time.Time</b> | The time after which a licence will no longer be valid This timestamp is set when the licence is created. String format is RFC3339.                                               | [optional] [readonly] |
| <b>ClusterCapacityBytes</b> | <b>uint64</b>    | The allowed provisioning capacity in bytes This value if for the cluster, if provisioning a volume brings the cluster's total provisioned capacity above it the request will fail | [optional]            |
| <b>UsedBytes</b>            | <b>uint64</b>    | Sum of the size of all volumes in the cluster                                                                                                                                     | [optional]            |
| <b>Kind</b>                 | <b>string</b>    | Denotes which category the licence belongs to                                                                                                                                     | [optional]            |
| <b>CustomerName</b>         | <b>string</b>    | A user friendly reference to the customer                                                                                                                                         | [optional]            |
| <b>Features</b>             | <b>[]string</b>  | A list of product features which are enabled by the licence, subject to the installed version.                                                                                    | [optional]            |

**\*\*Version\*\*** | **\*\*string\*\*** | An opaque representation of an entity version at the time it was obtained from the API. All operations that mutate the entity must include this version field in the request unchanged. The format of this type is undefined and may change but the defined properties will not change. | [optional]

[\[\[Back to Model list\]\]\(../README.md#documentation-for-models\)](#) [\[\[Back to API list\]\]\(../README.md#documentation-for-api-endpoints\)](#) [\[\[Back to README\]\]\(../README.md\)](#)

/\*

\* Ondat API

\*

\* No description provided (generated by Openapi Generator <https://github.com/openapitools/openapi-generator>)

\*

\* API version: 2.8.0

\* Generated by: OpenAPI Generator (<https://openapi-generator.tech>)

\*/

package api

// UpdateLicence struct for UpdateLicence

type UpdateLicence struct {

    // An Ondat product licence key, used to register a cluster. The format of this type is opaque and may change.

    Key string `json:"key,omitempty"`

    // An opaque representation of an entity version at the time it was obtained from the API. All operations that mutate the entity must include this version field in the request unchanged. The format of this type is undefined and may change but the defined properties will not change.

    Version string `json:"version,omitempty"`

}

# UpdateLicence

## Properties

Name | Type | Description | Notes

----- | ----- | ----- | -----

**\*\*Key\*\*** | **\*\*string\*\*** | An Ondat product licence key, used to register a cluster. The format of this type is opaque and may change. | [optional]

**\*\*Version\*\*** | **\*\*string\*\*** | An opaque representation of an entity version at the time it was obtained from the API. All operations that mutate the entity must include this version field in the request unchanged. The format of this type is undefined and may change but the defined properties will not change. | [optional]

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# 1.759 x-lint v0.0.0-20190409202823-959b441ac422

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# 1.763 kubernetes/cluster-bootstrap v0.0.0

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# 1.766 kubernetes/legacy-cloud-providers

## v0.0.0

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# 1.767 x-sync v0.0.0-20181221193216-37e7f081c4d4

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# 1.768 x-tools v0.0.0-20190311212946-11955173bddd

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package hooks

```
import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
 "testing"
```

```
 "golang.org/x/tools/internal/testenv"
)
```

```
func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck or gofumpt
 // isn't supported for those versions, and this fails for unknown, unrelated
 // reasons on Kokoro legacy CI.
 testenv.NeedsGo1Point(t, 19)
```

```
 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
 t.Skip("generating licenses only works on Unixes")
 }
```

```
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
 t.Fatal(err)
 }
 tmp.Close()
```

```
 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
 t.Fatalf("generating licenses failed: %q, %v", out, err)
 }
```

```
 got, err := ioutil.ReadFile(tmp.Name())
```

```

if err != nil {
 t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if
err != nil {
 t.Fatal(err)
}
if !bytes.Equal(got, want) {
 t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "io/ioutil"
 "path/filepath"
 "regexp"
 "strings"
)

func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
 if err != nil {
 return err
 }
 if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
 return filepath.SkipDir
 }
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
 }

```



```

 }
 return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
 return err
}
if needsCopyright {
 files
 = append(files, path)
}
return nil
}))
return files, err
}

```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.`)

```

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
 return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
 return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
 return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
 return false, err
 }
 // Don't require headers
 on generated files.
 if isGenerated(fset, parsed) {
 return false, nil
 }
}

```

```

shouldAddCopyright := true
for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\?.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
 if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
 }
 // Check if comment is at the beginning of the line in source.
 if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
 }
 }
 }
 return false
}

```

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//go:generate ./gen-licenses.sh licenses.go

package hooks

const licensesText = `

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//go:build go1.18
// +build go1.18

package copyright

import (
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
 t.Fatal(err)
 }
 if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

# 1.769 [github.com/go-toolsmith/astinfo](https://github.com/go-toolsmith/astinfo) v0.0.0-20180906194353-9809ff7efb21

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package hooks

```
import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
```



```

"testing"

"golang.org/x/tools/internal/testenv"
)

func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck or gofumpt
 // isn't supported for those versions, and this fails for unknown, unrelated
 // reasons on Kokoro legacy CI.
 testenv.NeedsGo1Point(t, 19)

 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
 t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
 t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
 t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := ioutil.ReadFile(tmp.Name())
 if err != nil {
 t.Fatal(err)
 }
 want, err := ioutil.ReadFile("licenses.go")
 if err != nil {
 t.Fatal(err)
 }
 if !bytes.Equal(got, want) {
 t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
 }
}

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// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (

```

```

"go/ast"
"go/parser"
"go/token"
"io/fs"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
)

```

```

func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
 if err != nil {
 return err
 }
 if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
 return filepath.SkipDir
 }
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
 }
 }
 return nil
 })
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
 return err
 }
 if needsCopyright {
 files
 = append(files, path)
 }
 return nil
})
return files, err
}

```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
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license that can be found in the LICENSE file.`)

```

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {

```

```

 return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
 return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
 return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
 return false, err
}
// Don't require headers
on generated files.
if isGenerated(fset, parsed) {
 return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`^// .*DO NOT EDIT\?.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {

```

```

if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
}
// Check if comment is at the beginning of the line in source.
if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
}
}
}
return
false
}

```

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//go:generate ./gen-licenses.sh licenses.go

package hooks

const licensesText = `

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```

```
//go:build go1.18
// +build go1.18
```

```
package copyright
```

```
import (
 "strings"
 "testing"
)
```

```
func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
 t.Fatal(err)
 }
 if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```



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# 1.773 [github.com/xlab/handysort](https://github.com/xlab/handysort) v0.0.0-20150421192137-fb3537ed64a1

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# 1.774 golang.org/x/build v0.0.0-20190927031335-2835ba2e683f

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# 1.783 github.com/mrunalp/fileutils v0.0.0-20171103030105-7d4729fb3618

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# 1.784 x-crypto v0.0.0-20190211182817-74369b46fc67

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# 1.785 github.com/stackexchange/wmi v0.0.0-20180116203802-5d049714c4a6

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# 1.788 [github.com/rubiojr/go-vhd](https://github.com/rubiojr/go-vhd) v0.0.0-20160810183302-0bfd3b39853c

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

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# 1.796 gopkg.in/gcfg v1.2.0

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# 1.797 github.com/ultraware/funlen v0.0.2

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## cli.go - <https://github.com/codegangsta/cli>

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

...

go get go.uber.org/tools/update-license

...

## ## Usage

...

update-license go\_files...

...

## ## Further Work

- \* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
- \* Support custom owner (not just "Uber Technologies, Inc.")
- \* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
- \* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
- \* Better detection support for existing licenses so they can be removed
- \* Verbose, dry run support

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

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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 c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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```

package main

```
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
// http://www.apache.org/licenses/LICENSE-2.0
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}

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# 1.807 spf13-pflag v1.0.1

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# 1.808 [github.com/golangci/golangci-lint](https://github.com/golangci/golangci-lint) v1.18.0

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goproperties - properties file decoder for Go

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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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package misspell

// Legal provides licensing info.

const Legal = `

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# 1.810 kubernetes/csi-translation-lib v0.0.0

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# 1.812 gopkg.in/warnings v0.1.1

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# 1.813 x-oauth2 v0.0.0-20180821212333-d2e6202438be

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# 1.814 x-sys v0.0.0-20190209173611-3b5209105503

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# 1.815 [github.com/golangci/revgrep](https://github.com/golangci/revgrep) v0.0.0-20180526074752-d9c87f5ffaf0

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## 1.816 [github.com/golangci/goconst](https://github.com/golangci/goconst) v0.0.0-20180610141641-041c5f2b40f3

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## 1.817 [x-tools](https://github.com/robertkrimen/less) v0.0.0-20190614205625-5aca471b1d59

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package hooks

```
import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
 "testing"
```

```
 "golang.org/x/tools/internal/testenv"
)
```

```
func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck or gofumpt
 // isn't supported for those versions, and this fails for unknown, unrelated
 // reasons on Kokoro legacy CI.
 testenv.NeedsGo1Point(t, 19)
```

```
 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
 t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
```

```

t.Fatal(err)
}
tmp.Close()

if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
t.Fatalf("generating licenses failed: %q, %v", out, err)
}

got, err := ioutil.ReadFile(tmp.Name())
if err != nil {
t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if
err != nil {
t.Fatal(err)
}
if !bytes.Equal(got, want) {
t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}

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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
"go/ast"
"go/parser"
"go/token"
"io/fs"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
)

func checkCopyright(dir string) ([]string, error) {
var files []string
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
if err != nil {
return err
}
})

```



```

if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
 return filepath.SkipDir
 }
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
 }
 return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
 return err
}
if needsCopyright {
 files
 = append(files, path)
}
return nil
})
return files, err
}

```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.`)

```

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
 return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
 return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
 return false, err
 }
 fset := token.NewFileSet()

```

```

parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
 return false, err
}
// Don't require headers
on generated files.
if isGenerated(fset, parsed) {
 return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
}
return shouldAddCopyright, nil
}

```

```

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\?.?`)

```

```

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
 if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
 }
 // Check if comment is at the beginning of the line in source.
 if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
 }
 }
 }
 return
 false
}

```

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//go:generate ./gen-licenses.sh licenses.go

package hooks

const licensesText = `

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,

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//go:build go1.18

// +build go1.18

package copyright

```
import (
 "strings"
 "testing"
)
```

```
func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
 t.Fatal(err)
 }
 if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

# 1.818 [github.com/coredns/corefile-migration](https://github.com/coredns/corefile-migration) v1.0.6

## 1.818.1 Available under license :

package migration

import "fmt"

// Notice is a migration warning

```
type Notice struct {
 Plugin string
 Option string
 Severity string // 'deprecated', 'removed', or 'unsupported'
```

```

ReplacedBy string
Additional string
Version string
}

```

```

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
 s += fmt.Sprintf(`Plugin "%v"`, n.Plugin)
 } else {
 s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
 }
 if n.Severity == unsupported {
 s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == newdefault {
 s += "is added as a default in " + n.Version + "."
 } else {
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
 s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
 s += " " + n.Additional
 }
 return s
}

```

```

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 deprecated = "deprecated" // deprecated,
 but still completely functional
 ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
 removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
 the Corefile
 newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
 in the corefile.
 unsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 all = "all" // show all statuses
)

```

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## **1.819 github.com/golangci/ineffassign v0.0.0-20190609212857-42439a7714cc**

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# 1.825 utils v0.0.0-20181221173059-8a16e7dd8fb6

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# 1.826 json iterator go v1.1.5

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# 1.827 [github.com/quobyte/api](https://github.com/quobyte/api) v0.1.2

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# 1.828 github.com/vishvananda/netlink v1.0.0

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# 1.835 github.com/golangci/misspell v0.0.0-20180809174111-950f5d19e770

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```

```
// Legal provides licensing info.
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# 1.837 k8s-io-kubernetes v1.13.2

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# 1.838 x-sync v0.0.0-20180314180146-1d60e4601c6f

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# 1.841 [github.com/nsf/termbox-go](https://github.com/nsf/termbox-go) v0.0.0-20180303152453-e2050e41c884

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|   |       |       |      |      |             |
|---|-------|-------|------|------|-------------|
| 1 | 32    | 7679  | 7648 | 3.7M | 8f8378c0-01 |
| 2 | 7680  | 16383 | 8704 | 4.3M | 8f8378c0-02 |
| 5 | 7936  | 12799 | 4864 | 2.4M |             |
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```
#!/usr/bin/env bash
```

```
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
This script will read the license file into memory, strip out the copyright, and then
```

```
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
 local FILE="$1"
```

```
 # Read the contents of the file into a variable
```

```
 local raw_license_text=$(<"$FILE")
```

```
 # Convert to lowercase
```

```
 local lowercase_license_text="{raw_license_text,,}"
```

```
 # Remove anything before the beginning of the license
```

```
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
 # Replace line breaks (Windows or Linux) with a single space
```

```
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
 # Strip away any non-printable, non-whitespace characters
```

```
 local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
 # Remove punctuation and special characters
```

```
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z]//g')
```

```
 # Calculate the MD5 sum of the cleaned license text
```

```
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
 # Output the MD5 sum
```

```
 echo "$MD5SUM"
```

```
}
```

```
Check if the FILE argument is provided
```

```
if [-z "$1"]; then
```



```

echo "Please provide a FILE as an argument."
exit 1
fi

Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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```

# 1.851 fdisk 2.37.4

## 1.851.1 Available under license :

| 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 |      |             |

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## 1.856 py3-six 1.15.0-r0

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|---|-------|-------|------|---------|------|-------------|------|
| 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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```

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

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```

#!/usr/bin/env bash
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="{raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

Check if the FILE argument is provided
if [-z "$1"]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1

```

x ?"U@,5 @mISmIN<GimCN7g1u|E  
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
A0mImImI...  
lost+found...

;9GimCN7g

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-  
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@  
WEV[B "1

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# 1.859 libc6-compat 1.2.2-r2

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# 1.860 [github.com/chai2010/gettext-go](https://github.com/chai2010/gettext-go) v0.0.0-20160711120539-c6fed771bfd5

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## 1.875 coreos-semver 0.3.0

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