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1.290 githubcommattngocolorable v0.1.12

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1.291 utils v0.0.0-20210819203725-bdf08cb9a70a

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1.292 tcp-wrappers 7.6.q-30

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1.293 googlecloudgo v0.97.0

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1.294 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.295 controller-runtime 0.10.3

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1.299 evanphx-json-patch 5.6.0+incompatible

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1.300 cloud-google-com-go 0.99.0

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1.302 libcryptsetup12 2:2.2.2-3ubuntu2.4

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1.306 k8s-io-apimachinery v0.22.3

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1.307 controller-runtime v0.10.3

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1.308 k8s-io-client-go v0.22.3

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1.309 k8s-io-api v0.22.3

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1.310 github.com/golang-jwt/jwt/v4 v4.2.0

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1.311 sigs-k8s-io-yaml v1.3.0

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1.312 common v0.32.1

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1.328.1 Available under license

1.329 protobuf v1.28.0

1.329.1 Available under license

1.330 logr v1.2.3

1.330.1 Available under license

1.331 github.com/cyphar/filepath-securejoin v0.2.3

1.331.1 Available under license

1.332 treeprint 1.1.0

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1.333 distro 1.4.0

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1.351 go-autorest v0.11.27

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1.364 go-autorest-adal 0.9.20

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1.365 google-gnostic 0.5.7-v3refs

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1.366 go-autorest 0.11.27

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1.367 docker-distribution 2.8.1+incompatible

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1.369 kubernetes-component-base 0.22.3

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1.373 prometheus-common 0.37.0

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1.380 prometheus-procfs 0.8.0

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1.381 squirrel 1.5.3

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1.388 docker v20.10.17+incompatible

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1.404 github.com/go-mgo/mgo v2.0.0-20190816093944-a6b53ec6cb22

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1.409 ./staging/src/k8s.io/component-base (devel)

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1.410 ./staging/src/k8s.io/component-helpers (devel)

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1.411 ./staging/src/k8s.io/kubectl (devel)

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1.417 klog v2.70.1

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1.418 go-autorest v0.9.20

1.418.1 Available under license

1.419 github.com/bluesuncorp/validator v9.31.0

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1.420 kubernetes-client 0.25.0

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1.421 prometheus-client v1.13.0

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1.433 audit 2.8.5-2ubuntu6

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1.434 file 5.38-4

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1.435 kubernetes/cli-runtime v0.25.0

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1.436 github.com/masterminds/vcs v1.13.3

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1.437 toml v1.1.0

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1.438 k8s-io-client-go v0.25.0

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1.447 treeprint v1.1.0

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1.448 structured-merge-diff v4.2.3

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1.449 github.com/chai2010/gettext-go v1.0.2

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1.450 github.com/google/gnostic v0.5.7-v3refs

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1.451 k8s-io-kube-openapi v0.0.0-20220803162953-67bda5d908f1

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1.452 kubernetes/kubectl v0.25.0

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1.453 k8s-io-api v0.25.0

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1.454 google-golang-org-grpc v1.47.0

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1.455 oras.land/oras-go v1.2.0

1.455.1 Available under license

1.456 github.com/rubenv/sql-migrate v1.1.2

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1.457 sigs.k8s.io/kustomize/kyaml v0.13.9

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1.458 k8s-io-apiserver v0.25.0

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1.459 k8s-io-apimachinery v0.25.0

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1.460 github.com/go-gorp/gorp/v3 v3.0.2

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1.461 containerd v1.6.6

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1.462 squirrel v1.5.3

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1.480 x-net v0.0.0-20220225172249-27dd8689420f

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1.481 github.com/daviddengcn/go-colortext v1.0.0

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1.483 k8s-io-kubernetes v0.0.0-20220921142545-5835544ca568

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1.551 go.uber.org/atomi 1.7.0

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1.568 blackfriday v2.1.0

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1.569 reflectwalk v1.0.2

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1.570 github.com/fatih/camelcase v1.0.0

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1.574 term v0.0.0-20210619224110-3f7ff695adc6

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1.575 structured-merge-diff v4.1.2

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1.576 go-urn v1.2.1

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1.577 spf13-pflag v1.0.5

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1.579 dedent v1.1.0

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1.5 coreutils 8.30-3ubuntu2

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1.9 libxau 1.0.9-0ubuntu1

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1.10 libxmu 1.1.3-0ubuntu1

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1.11 xauth 1.1-0ubuntu1

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1.12 libxext 1.3.4-0ubuntu1

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1.13 dash 0.5.10.2-6

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1.14 diffutils 1:3.7-3

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1.16 python-certifi 2019.11.28

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.17 go-cache v2.1.0

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1.20 urllib3 1.25.8

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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/@WBRSRlBZDhBFXQB6/>
 * 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

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

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

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

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

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

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

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.

 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

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

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

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

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

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

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

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

1.21 iconv 2.31

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1.27 libedit 3.1-20191231-1

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1.28 lvm2 2.03.07-1ubuntu1

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1.31 libxcb 1.14-2

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1.33 libcbor 0.6.0-0ubuntu1

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1.37 properties 1.8.1

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1.39 dbus-python 1.2.16

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1.41 uitable 0.0.4

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1.42 viper 1.7.0

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1.43 libpsl 0.21.0-1ubuntu1

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1.44 json-c 0.13.1+dfsg-7ubuntu0.3

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1.45 gorilla 1.2.0

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1.46 go-runewidth 0.0.9

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1.47 ini v1.51.0

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1.52 hostname 3.23

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

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b) Use a suitable shared library
mechanism for linking with the
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1.54 sed 4.7-1

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1.55 libffi 3.3-4

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1.56 base-passwd 3.5.47

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Julian Seward, jseward@acm.org
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1.58 cracklib 2.9.6-3.2

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

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

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

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

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

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

the original license (before moving to sourceforge -- aka, 2.7) was not=20
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=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
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> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
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> > What I am hearing so far is that LGPL makes sense, since it can be
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> My apologies for not chiming in in anything resembling a reasonable
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> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk

>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.59 libpwquality 1.4.2-1build1

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1.62 cdebconf 0.251ubuntu1

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1.63 pygobject 3.36.0-1

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1.69 go-connections v0.4.0

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1.70 go-spew v1.1.1

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1.82 amqp v0.0.0-20190404075320-75d898a42a94

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1.85 mime-support 3.64ubuntu1

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1.86 libfido2 1.3.1-1ubuntu2

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1.87 shared-mime-info 1.15-1

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1.88 dbus-python 1.2.16-1build1

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1.90 lsb 11.1.0ubuntu2

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1.91 libxcrypt 4.4.10-10ubuntu4

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1.92 sysv-init 2.96-2.1ubuntu1

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1.94 scowl 2018.04.16-1

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1.96 mgo 2.0.0-20190816093944-a6b53ec6cb22

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mgo - MongoDB driver for Go

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1.97 python-distro 1.4.0-1

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* $ ./checkTag tag
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* The tag is then compared to zstd version number.

* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.103 libtasn 4.16.0-2

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Version 2.1, February 1999

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1.113 golang-protobuf-extensions v1.0.2-0.20181231171920-c182affec369

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1.114 goautoneg v0.0.0-20191010083416-a7dc8b61c822

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1.117 clientmodel v0.2.0

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1.121 sigs-k8s-io-yaml v1.2.0

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1.122 github.com/google/uuid v1.1.2

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1.124 rpc-codec v1.2.2

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1.126 sprig 3.2.2

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1.127 x-crypto 0.0.0-20210220033148-5ea612d1eb83

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1.128 pygobject 3.36.0

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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Library will still fall under Section 6.)

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

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

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

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

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

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

than the cost of performing this distribution.

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

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

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

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

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1.131 ssh-import-id 5.10

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1.132 groupcache v0.0.0-20210331224755-41bb18bfe9da

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1.133 go-uber-org-multierr v1.6.0

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1.134 mux v1.7.4

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1.135 zerolog v1.20.0

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1.136 googlecloudgo v0.65.0

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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 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.
 }
 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.
 }
 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.
 }
 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.
 }
 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.
 }
 resp, err := c.List(ctx, req)
 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.
 }
 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.
 }
 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/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "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 availaible 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, "gapic", 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 httpRsp.StatusCode != http.StatusOK {
  return nil, fmt.Errorf(httpRsp.Status)
 }

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

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 return rsp, unm.Unmarshal(buf, rsp)
}

// 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, _ := 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 httpRsp.StatusCode != http.StatusOK {
 return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

return rsp, unm.Unmarshal(buf, rsp)
}
```

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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 "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.
 }
 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.
 }
 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/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
 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 availaible from Google Compute Engine API.
```

```
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*computepb.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) (*computepb.Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) (*computepb.LicensesListResponse,
error)
 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)
(*computepb.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)
(*computepb.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)
(*computepb.LicensesListResponse, error) {
 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, "gapic", 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 *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*computepb.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 httpRsp.StatusCode != http.StatusOK
{
 return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

return rsp, unm.Unmarshal(buf, rsp)
}

// 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 httpRsp.StatusCode != http.StatusOK {
  return nil, fmt.Errorf(httpRsp.Status)
 }

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

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.License{}

 return rsp, unm.Unmarshal(buf, rsp)
}

// 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 httpRsp.StatusCode != http.StatusOK {
  return nil, fmt.Errorf(httpRsp.Status)
 }

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

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Policy{}

 return rsp, unm.Unmarshal(buf, rsp)
}

// 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) (*computepb.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 httpRsp.StatusCode != http.StatusOK {
 return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

return rsp, unm.Unmarshal(buf, rsp)
}

// 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) (*computepb.LicensesListResponse, error) {
 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
}
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 httpRsp.StatusCode != http.StatusOK {
 return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicensesListResponse{}

return rsp, unm.Unmarshal(buf, rsp)
}

// 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 httpRsp.StatusCode != http.StatusOK {
  return nil, fmt.Errorf(httpRsp.Status)
 }

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

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Policy{}

 return rsp,
 unm.Unmarshal(buf, rsp)
}

// 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 httpRsp.StatusCode != http.StatusOK {
  return nil, fmt.Errorf(httpRsp.Status)
 }

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

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 return rsp, unm.Unmarshal(buf, rsp)
}
```

1.137 aec v1.0.0

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1.138 lz4 1.9.2-2ubuntu0.20.04.1

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lz4
Source: https://github.com/Cyan4973/lz4

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1.139 gogo-protobuf v1.3.2

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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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1.140 githubcommattngorunewidth v0.0.9

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1.141 githubcomgoopenapiswag v0.19.14

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1.142 clockwork v0.2.2

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Clockwork - a clock 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 cron replacement. It runs as 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.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process 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 clock process with no locks, but also offers
 near infinite horizontal
scalability.

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

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the clock process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment, and use per-event blocks to call DJ or Resque
enqueue methods. For example, with DJ/Rails:

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

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the
clockwork binary does this automatically, or you can do it explicitly),

this
exposes a small DSL ("handler" and "every") to define the handler for events,
and then the events themselves.

The handler typically looks like this:

```
  handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name
passed in. In most cases, you should be able to pass the job name directly
through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
  every(5.minutes, 'thing.do')
  every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five
minutes, passing the job name 'thing.do' into the handler. The handler shown
above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that
rely on classes rather than job names (i.e. DJ and Resque). In this case, you
need not define a general event handler, and instead provide one with each
event:

```
  every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for
logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock 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:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock 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](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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/* nettle-internal.c

Things that are used only by the testsuite and benchmark, and
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MD2

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SHA224, SHA256, SHA384, and SHA512

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1.145 ps v0.0.0-20150810152359-62de8c46ede0

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1.147 gosuri-uitable v0.0.4

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1.148 gopkg-in-mgo-v2 v2.0.0-20190816093944-a6b53ec6cb22

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1.149 githubcomimdariomergo v0.3.6

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

1.150 go-retryablehttp v0.7.0

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1.152 mux v1.8.0

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test-getrandom-interface.c, test-symbols-compat.sh,
test-symbols-renames.sh,
test-symbols-static.sh
m4/zw_alignment.m4, m4/zw_static_assert.m4, m4/zw_endianness.m4,
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test-crypt-md5.c, test-crypt-sha256.c, test-crypt-sha512.c,
test-des-cases.h, test-des-obsolete{,_r}.c, test-gensalt.c,
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1.157 gir 1.64.1-1~ubuntu20.04.1

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1.158 lsb-release 11.1.0ubuntu2

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1.159 python-gi 3.36.0-1

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1.160 libmagic 1:5.38-4

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1.161 python-chardet 3.0.4-4build1

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1.162 python3-distro 1.4.0-1

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1.163 python-six 1.14.0-2

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1.164 libdconf1 0.36.0-1

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.166 xauth 1:1.1-0ubuntu1

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1.170 libxext 2:1.3.4-0ubuntu1

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1.171 libxau 1:1.0.9-0ubuntu1

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1.172 python3-certifi 2019.11.28-1

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.173 dmsetup 2:1.02.167-1ubuntu1

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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

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1.176 semver v3.1.1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked
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Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

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in at least 5 of 12 of the dictionaries as indicated
in the 12Dicts
package, and uppercase words in at least 4 of the previous 12
dictionaries. A decent number of proper names is also included: The
top 1000 male, female, and Last names from the 1990 Census report; a
list of names sent to me by Alan Beale; and a few names that I added

myself. Finally a small list of abbreviations not commonly found in
other word lists is included.

The name files form the Census report is a government document which I
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in the public domain.

The 60 level includes all words appearing in
 at least 2 of the 12
dictionaries as indicated by the 12Dicts package.

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dictionary words from the MWords package. The common dictionary words,
like those from the 12Dicts package, have had all likely inflections
added. The 70 level also included the 5desk list from version 4.0 of
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The 80 level includes the ENABLE word list, all the lists in the
ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics
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#
#   Changelog:
#
#   2000-01-05  Björn Jacke <bjoern.jacke@gmx.de>
#             - first version with translation rules derived from
#               metaphone.cc distributed with aspell 0.28.3
#             - "TH" is now representated as "@" because "0" is a
#               meta character
#             - removed TH(!vowel) --> T; always use TH --> # instead
#             - dropped "^AE" -> "E" (redundant)
#             - "ing" is transformed to "N", not "NK"
#             - "SCH(EO)" transforms to "SK" now
#             - added R --> SILENT if (after a vowel) and no (vowel or
#               "y" follows) like in "Marcy" or "abort"
#             - H is SILENT in RH at beginning of words
#             - H is SILENT if vowel leads and "Y" follows
#             - some ".OUGH.."  --> ...F exceptions added
#             - "^V" transforms
 to "W"
#   2000-01-07  Kevin Atkinson <kevinatk@home.com>
#             Converted from header to data file.
#
```

1.178 libpwquality-common 1.4.2-1build1

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1.189 libcrack 2.9.6-3.2

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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1.190 dconf-cli 0.36.0-1

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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

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software only, so we use the Lesser General Public License.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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When a "work that uses the Library" uses material from a header file
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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a) Accompany the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

1.195 go-metrics v0.0.1

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1.196 github.com/makenowjust/heredoc v1.0.0

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1.204 go-autorest-date 0.3.0

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package cloud

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

var sentinels = []string{
 "Copyright",
 "Google",
 `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
 t.Parallel()
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  if
 ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   // .pb.go files are generated from the proto files.
   // .proto files must have license headers.
   return nil
  }
```

```
if path == "bigtable/cmd/cbt/cbtdoc.go" {
 // Automatically generated.
 return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
 // BSD license, which is compatible, is embedded in the file.
 return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
 return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
 if !bytes.Contains(src, []byte(sentinel)) {
  t.Errorf("%v: license header not present. want %q", path, sentinel)
  return nil
 }
}

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

1.206 logr 0.4.0

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1.207 josharian-intern 1.0.0

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1.208 google-go-cmp 0.5.6

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1.209 go-openapi-jsonpointer 0.19.5

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1.210 go-openapi-swag 0.19.14

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1.215 kube-openapi 0.0.0-20210421082810-95288971da7e

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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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1.216 x-time-rate 0.0.0-20210723032227-1f47c861a9ac

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1.217 utils 0.0.0-20210819203725-bdf08cb9a70a

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1.218 evanphx-json-patch 4.11.0+incompatible

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1.219 zap 1.19.0

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1.220 form3tech-oss-jwt-go 3.2.3+incompatible

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1.221 googleapis-gnostic 0.5.5

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1.222 go-logr-zapr 0.4.0

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1.223 spf13-pflag 1.0.5

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1.224 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.225 x-text 0.3.7

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1.226 urlesc 0.0.0-20170810143723-de5bf2ad4578

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1.227 afero 1.0.5

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1.228 blackfriday 2.1.0

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1.229 mitchellh-mapstructure 1.1.2

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1.234 fvbommel-sortorder 1.0.1

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1.235 easyjson 0.7.6

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1.236 go-errors-errors 1.0.1

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1.237 lithammer-dedent 1.1.0

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1.238 zapr v0.4.0

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1.243 clockwork 0.2.2

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Clockwork - a clock 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 cron replacement. It runs as 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.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process 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 clock process with no locks, but also offers near infinite horizontal scalability.

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

```
  require 'stalker'

  handler { |job| Stalker.enqueue(job) }

  every(1.hour, 'feeds.refresh')
  every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the clock process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment, and use per-event blocks to call DJ or Resque
enqueue methods. For example, with DJ/Rails:

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

  every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
  every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the
clockwork binary does this automatically, or you can do it explicitly),
 this
exposes a small DSL ("handler" and "every") to define the handler for events,
and then the events themselves.

The handler typically looks like this:

```
  handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name
passed in. In most cases, you should be able to pass the job name directly
through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
  every(5.minutes, 'thing.do')
  every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five
minutes, passing the job name 'thing.do' into the handler. The handler shown
above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that
rely on classes rather than job names (i.e. DJ and Resque). In this case, you

need not define a general event handler, and instead provide one with each
event:

```
  every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for
logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock 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:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock 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](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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1.244 prometheus-procfs 0.7.3

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

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1.245 aws-sdk-go 1.35.30

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1.246 makenowjust-heredoc 1.0.0

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1.247 go-playground-locales 0.14.0

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1.248 leodido-go-urn 1.2.1

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1.249 go-playground-universal-translator 0.18.0

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1.250 gotenv 1.2.0

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1.251 gopkg.in-ini 1.51.0

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1.252 bluesuncorp-validator 9.31.0

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1.253 zerolog 1.20.0

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1.254 x-term 0.0.0-20210927222741-03fcf44c2211

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1.263 gopkg.in/bluesuncorp/validator.v9 v9.31.0

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1.264 docker-credential-helpers v0.6.4

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1.265 flock v0.8.1

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1.267 coreos-semver 0.3.0

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1.268 github.com/google/uuid v1.2.0

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1.269 kubernetes-client 0.22.3

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1.273 prometheus-common 0.32.1

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1.274 cloud-google-com-go 0.97.0

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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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
}

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
}

// 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
}
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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 "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
}
```

1.275 gofrs-flock 0.8.1

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1.276 term v0.0.0-20210927222741-03fcf44c2211

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1.277 color v1.13.0

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1.278 icu 66.1-2ubuntu2.1

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

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

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
```

```
STATIC_O = ao

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

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


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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1.280 github.com/exponent-io/jsonpath v0.0.0-20151013193312-d6023ce2651d

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1.281 cyphar-filepath-securejoin 0.2.3

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1.282 go-autorest v0.2.1

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1.283 go-autorest v0.9.13

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1.284 github.com/moby/spdystream v0.2.0

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1.289 python 3.8.2-0ubuntu2

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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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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
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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
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2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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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
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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1.291 utils v0.0.0-20210819203725-bdf08cb9a70a

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1.292 tcp-wrappers 7.6.q-30

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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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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
}
// Copyright 2021 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
}

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
}

// 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
}
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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#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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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
}
```

1.294 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.295 controller-runtime 0.10.3

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1.296 go-colorable 0.1.12

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1.297 x-oauth2 0.0.0-20211104180415-d3ed0bb246c8

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1.298 popt 1.16-14

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1.299 evanphx-json-patch 5.6.0+incompatible

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1.300 cloud-google-com-go 0.99.0

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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#TestIamPermissionsLicenseCodeRequ
est.
 }
 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
}
// Copyright 2021 Google LLC
//
```

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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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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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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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
 }

 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
}

// 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
}
```

1.301 evanphx-json-patch 4.12.0+incompatible

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1.302 libcryptsetup12 2:2.2.2-3ubuntu2.4

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1.305 k8s-io-apiextensions-apiserver v0.22.2

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1.310 github.com/golang-jwt/jwt/v4 v4.2.0

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1.311 sigs-k8s-io-yaml v1.3.0

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1.313 x-net 0.0.0-20220225172249-27dd8689420f

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1.314 x-time-rate 0.0.0-20220210224613-90d013bbcef8

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1.315 spf13-cobra v1.4.0

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1.316 k8s-io-kube-openapi v0.0.0-20210421082810-95288971da7e

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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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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#TestIamPermissionsLicenseCodeRequ
est.
 }
 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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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 availaible 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, "gapic", 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
```

```
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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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// limitations under the License.

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

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
 }

 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
}

// 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
}
```

1.318 jsonpatch v5.6.0+incompatible

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1.319 prometheus-client v1.12.1

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1.320 xz 5.2.4-1ubuntu1.1

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Source:
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changelog.gz (commit 975d8fd) explains:
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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g
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This package was put together by Matthias Klose <doko@debian.org>, from
the following sources:

bash: ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz

Bash homepage: http://tiswww.case.edu/php/chet/bash/bashtop.html

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1.324 masterminds-semver 3.1.1

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1.326 govalidator 0.0.0-20200428143746-21a406dcc535

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1.328 libsepol 3.0-1ubuntu0.1

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1.329 protobuf v1.28.0

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1.330 logr v1.2.3

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1.331 github.com/cyphar/filepath-securejoin v0.2.3

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1.334 networkd-dispatcher 2.1-2~ubuntu20.04.3

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1.336 prometheus-client 1.12.1

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1.338 glob 0.2.3

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1.341 google-uuid 1.2.0

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1.342 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.343 jsonpatch v4.12.0+incompatible

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1.344 google-cloud-go 0.99.0

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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#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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```
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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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```

```
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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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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// limitations under the License.

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

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
 }

 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
}

// 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
}
```

1.345 opencontainers-image-spec 1.0.3-0.20211202183452-c5a74bcca799

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1.346 shadow 4.8.1-1ubuntu5.20.04.2

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1.348 logr 1.2.3

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1.349 pcre 2:8.39-12ubuntu0.1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular
expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the
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PCRE is a library of functions to support regular expressions whose syntax
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included in the distribution is a set of C++ wrapper functions.

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1.350 x-sys 0.0.0-20220520151302-bc2c85ada10a

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1.351 go-autorest v0.11.27

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1.352 component-base v0.22.3

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1.357 keyutils 1.6-6ubuntu1.1

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1.358 grpc-go 1.47.0

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1.359 e2fsprogs 1.45.5-2ubuntu1.1

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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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===
--- 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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Theodore Ts'o
23-June-2007

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of the 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>,
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1.360 google-cloud-go 0.97.0

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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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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
}
```

```
// Copyright 2021 Google LLC
//
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// limitations under the License.

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

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
 }

 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
}

// 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
}
// Copyright 2021 Google LLC
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// You may obtain a copy of the License at
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

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

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#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
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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
}
```

1.361 yaml v3.0.1

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1.362 google-go-cmp v0.5.8

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1.363 futures 3.8

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1.364 go-autorest-adal 0.9.20

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1.365 google-gnostic 0.5.7-v3refs

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1.366 go-autorest 0.11.27

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1.367 docker-distribution 2.8.1+incompatible

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

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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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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1.369 kubernetes-component-base 0.22.3

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1.370 x-oauth2 0.0.0-20220223155221-ee480838109b

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1.371 fsnotify 1.4.9

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1.374 toml 1.1.0

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1.375 streadway-amqp 0.0.0-20190404075320-75d898a42a94

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1.376 gorp 3.0.2

1.376.1 Available under license :

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1.377 x-sys 0.0.0-20220722155257-8c9f86f7a55f

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1.378 x-net 0.0.0-20220722155237-a158d28d115b

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1.379 google-cloud-go 0.65.0

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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 availaible 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, "gapic", 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
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 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 *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, _ := 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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 availaible 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, "gapic", 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 *computepb.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 := &computepb.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
}

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
}

// 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
}
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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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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
}
```

1.380 prometheus-procfs 0.8.0

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

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1.381 squirrel 1.5.3

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.384 x-sync 0.0.0-20220722155255-886fb9371eb4

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1.385 docker 20.10.17+incompatible

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

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

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1.388 docker v20.10.17+incompatible

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

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

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1.391 kustomize-api 0.12.1

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1.393 kustomize-kyaml 0.13.9

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1.404 github.com/go-mgo/mgo v2.0.0-20190816093944-a6b53ec6cb22

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mgo - MongoDB driver for Go

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1.405 k8s-io-client-go v11.0.0

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1.407 jwt-go v3.2.3

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1.414 ./staging/src/k8s.io/client-go (devel)

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1.415 ./staging/src/k8s.io/cli-runtime (devel)

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1.416 image-spec v1.0.3-0.20211202183452-c5a74bcca799

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1.417 klog v2.70.1

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1.418 go-autorest v0.9.20

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1.419 github.com/bluesuncorp/validator v9.31.0

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1.420 kubernetes-client 0.25.0

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1.421 prometheus-client v1.13.0

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1.426 pcre 10.34-7ubuntu0.1

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1.427 kubernetes-cliruntime 0.25.0

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1.428 kubernetes-kubectl 0.25.0

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1.430 kubernetes-apiserver 0.25.0

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1.431 sql-migrate 1.1.2

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1.432 pcre 8.39-12ubuntu0.1

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1.433 audit 2.8.5-2ubuntu6

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1.436 github.com/masterminds/vcs v1.13.3

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1.437 toml v1.1.0

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1.438 k8s-io-client-go v0.25.0

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1.439 sigs.k8s.io/kustomize/api v0.12.1

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1.440 pq v1.10.6

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```
//go:build go1.10
// +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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1.442 k8s-io-apiextensions-apiserver v0.25.0

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1.446 helm-helm v0.0.0-20220912192747-ce66412a723e

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1.449 github.com/chai2010/gettext-go v1.0.2

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1.450 github.com/google/gnostic v0.5.7-v3refs

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1.451 k8s-io-kube-openapi v0.0.0-20220803162953-67bda5d908f1

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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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1.452 kubernetes/kubectl v0.25.0

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1.457 sigs.k8s.io/kustomize/kyaml v0.13.9

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localtime.go, localtime_test.go:

Originals:
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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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Protocol Buffers for Go with Gadgets

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

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1.462 squirrel v1.5.3

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1.463 google-golang-org-genproto v0.0.0-20220502173005-c8bf987b8c21

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1.464 sqlx v1.3.5

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1.465 sigs.k8s.io/json v0.0.0-20220713155537-f223a00ba0e2

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1.466 docker-credential-helpers 0.6.4

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1.467 prometheus-client 1.13.0

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1.468 x-text v0.3.7

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1.469 x-sys v0.0.0-20220520151302-bc2c85ada10a

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1.472 spf13-cast v1.3.0

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1.474 x-sync v0.0.0-20220722155255-886fb9371eb4

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1.475 spf13-afero v1.2.2

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1.476 x-oauth2 v0.0.0-20211104180415-d3ed0bb246c8

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1.477 zlib 1.2.11.dfsg-2ubuntu1.5

1.477.1 Available under license :

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/* 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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
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/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
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/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
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/* 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)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      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

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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 paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
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/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
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/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
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/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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*/

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 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 (deflate format) and
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). 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>, or to Gilles Vollant
<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 before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 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> 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> 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>, 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.

- gzdopen 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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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

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* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
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, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.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, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/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) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.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) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.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, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.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)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

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 Gulles 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.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- 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)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

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

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Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
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/* 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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* 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.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
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, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.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) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* 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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

 Copyright (C) 2003, 2012 Mark Adler, all rights reserved
 version 1.2, 11 Oct 2012

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 removed or altered from any source distribution.

 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

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 lastest zlib FAQ is at 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 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 . 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.

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

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-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.478 zlib1g 1:1.2.11.dfsg-2ubuntu1.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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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).
*/

1.479 helm-sh-helm 3.10.0

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1.481 github.com/daviddengcn/go-colortext v1.0.0

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
```

```
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  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.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==
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==
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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 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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The common/types/pb/equal.go modification of proto.Equal logic

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1.487 x-net v0.0.0-20220722155237-a158d28d115b

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1.489 expat 2.2.9-1ubuntu0.6

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1.496 python-setuptools 45.2.0-1ubuntu0.1

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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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
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1.497 python-pkg-resources 45.2.0-1ubuntu0.1

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1.498 six 1.14.0-2

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1.499 kubernetes-api 0.25.0

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1.500 kubernetes-apimachinery 0.25.0

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1.501 fdisk 2.34.0

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1.503 heimdal 7.7.0+dfsg-1ubuntu1.4

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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```
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 == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  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.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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

The common/types/pb/equal.go modification of proto.Equal logic

==========

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1.517 argon2 0~20171227-0.2

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1.518 base-files 11ubuntu5.7

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

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1.520 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6

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1.522 google-golang-org-genproto 0.0.0-20220502173005-c8bf987b8c21

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1.523 ncurses-term 6.2-0ubuntu2.1

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1.524 systemd 245.4-4ubuntu3.22

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@item
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@enumerate a
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?S:.
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?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH /**/
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Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
```

?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources

```
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
```

?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_truncl.U

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

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists

```
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
```

?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U

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

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop

: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U
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?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.

```
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
```

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U
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?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
```

: see if copysign exists
set copysign d_copysign
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U
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?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U
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?RCS: $Id: i_sysmount.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.

?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysuio.U,v $
?RCS:
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?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U
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?RCS:
?MAKE:d_fdim: Inlibc

?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U
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?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function. See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U
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?RCS:

```
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U

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```
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?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U
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```
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?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
```

?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.U
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.

?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U
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?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U
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?RCS:
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?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:

```
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U
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```
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?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
```

: see if isinfl exists
set isinfl d_isinfl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U
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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.U
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?RCS: $Id: i_sysmode.U,v $
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?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.

?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U
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?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

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```
?RCS:
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?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U
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```
?RCS: $Id: i_mntent.U,v $
?RCS:
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?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
```

eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.U
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?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U
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?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.

?H:#$d_unordered HAS_UNORDERED /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U
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?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U
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?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<

```
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
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```
?RCS: $Id: i_socks.U,v $
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?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U
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```
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?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
```

?MAKE: -pick add.Null $@ %<

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U
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?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U
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?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2 /**/

?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U
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?RCS: $Id: i_libutil.U,v $
?RCS:
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?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U
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?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:

?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U
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?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor. This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U
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?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U
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?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
'') full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
```

set round d_round
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U
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?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isnanl.U
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?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.

?C:.
?H:#$d_logb HAS_LOGB /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U
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?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U

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?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U
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?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.

```
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U
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```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C
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```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
   eval $inhdr
   ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeefp.U
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```
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?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U
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```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
```

```
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?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U
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```
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?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U
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?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U
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?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1 /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_expm1.U
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?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U
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?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is

?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U
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?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U
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?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U
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?RCS:

?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U
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?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_ustat.U,v $
?RCS:

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?RCS:
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?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

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?RCS:
?MAKE:d_lgamma: Inlibc

?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function. See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function. See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U
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?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2 /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U
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?RCS: $Id: i_poll.U,v $

```
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?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U
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```
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?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U
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```
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?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
```

?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U
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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U
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?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U
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?RCS: $Id: i_sysstatfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U
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?RCS: $Id: i_poll.U,v $
?RCS:
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?RCS:

?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_dup3.U
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?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER /**/
?H:.

```
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U
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```
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?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U
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```
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?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
```

?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U
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?RCS: $Id: i_crypt.U,v $
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U
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```
?RCS:
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?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U
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```
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?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
```

: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U
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?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U
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?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U
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?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U
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* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/files/Jmake.tmpl
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```
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?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fp_classl.U
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```
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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
```

```
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U
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```
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?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U
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```
?RCS: $Id: i_syslog.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U
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```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
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*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C
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```
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?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
```

?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U
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?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
```

?C: should be included.
?C:.
?H:#$i_prot I_PROT /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
No license file was found, but licenses were detected in source scan.

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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<

```
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
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*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U

1.531 perl 5.30.0-9ubuntu0.4

1.531.1 Available under license :

The "Artistic License"

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The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

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d) make other distribution arrangements with the Copyright Holder.

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8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script to regenerate Porting/Glossary. You have to manually
edit
the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH.
  A word of explanation: Configure and config_h.SH are generated from 'Units'
  (the *.U files). Files indicate dependencies (using make(1)), and
  Configure is built to follow those dependencies. However, config_h.SH
  is simply built by putting
 all the units in alphabetical order and
  extracting the relevant lines. (This could be fixed, I suppose, but
  it wasn't trivial the one time I looked.)
  The a_dvisory/ directory, then, is a place to put units that need
  to be early in config_h.SH. (Most units are self-contained
  and ought to be able to go anywhere. However, some things, like
  byteorder, need to have the #defines from multiarch available.)

acl/
  This is an old patch to begin to detect and use ACL (access
  control list) file protection schemes.

all/
  A folder that conveniently holds symbolic links to all the modules
  that are used to build the current Configure and config_h.SH.

compline/
  These are similar to the standard units, but I have modified them
  to have a more uniform compile command line, usually using the
  new Compile.U unit. (The ccflags.U unit is perl-specific since it
  mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place
  it is perl-specific.)

dist_patches/
   These are patches to dist that must be applied before it is built
  and installed. I have submitted these for inclusion in the
  regular dist distribution. They have already been applied
  to the ../dist-3.0at70b directory.

ebcdic/
  These are units that had to be specially modified to work under
  either EBCDIC or ASCII.

installdirs/
  These are units to handle perl's installation directories and
  related issues.

modified/
  These are modified versions of the standard units. Also included in
  this directory are new units that are clearly derived from existing
  units. I have submitted these for inclusion in the regular dist
  distribution.

nullified/
  These are null units that replace units in the standard
  distribution. Typically they are there because some part of the
  perl source accidentally uses a symbol that metaconfig thinks means we
  want the corresponding unit.

perl/
  These are specific to perl. Some
 are heavily derived from
  original dist units, and are marked as such. Others are original.

perl_patches/
  These are patches to the perl source. This directory
  should ordinarily be empty, but there may have been drift between
  the standard version of perl and the one associated with these
  units.

protos/
  These are units modified to use the new Hasproto.U or Protochk.U
  units to check for prototypes.

threads/
  These are specific to threading perl.

typedefs/
  These are standard units modified to use the modified Typedef.U
  unit to check for typedefs. (The modified Typdef.U includes a
  function to avoid unnecessary prompts if the typdef being searched
  for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just sit here.

Copyright Information:

Unless otherwise indicated,
 the files contained in this
distribution are:

  Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may
reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
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that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel
free to ask.

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Lafayette College
Easton, PA 18042-1782
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1.532 util-linux 1:2.34-0.1ubuntu9.4

1.532.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: util-linux
Upstream-Contact: util-linux@vger.kernel.org
Source: https://www.kernel.org/pub/linux/utils/util-linux/

Files: *
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1991, 1992 Linus Torvalds
1991-2004 Miquel van Smoorenburg
1992 A. V. Le Blanc (LeBlanc@mcc.ac.uk)
1992-1997 Michael K. Johnson, johnsonm@redhat.com
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2003, 2004, 2005, 2008 Theodore Ts'o <tytso@mit.edu>
1994 Kevin E. Martin (martin@cs.unc.edu)
1994 Salvatore Valente <svalente@mit.edu>
1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)
1994-2005 Jeff Tranter (tranter@pobox.com)
1995, 1999, 2000 Andries E. Brouwer <aeb@cwi.nl>
1997-2005 Frodo Looijaard
<frodo@frodo.looijaard.name>
1998 Danek Duvall <duvall@alumni.princeton.edu>
1999 Andreas Dilger
1999-2002 Transmeta Corporation
1999, 2000, 2002-2009, 2010, 2011, 2012, 2014 Red Hat, Inc.
2000 Werner Almesberger
2004-2006 Michael Holzt, kju -at- fqdn.org
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2007-2014 Karel Zak <kzak@redhat.com>
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2008 Roy Peled, the.roy.peled -at- gmail.com
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2010, 2011, 2012 Davidlohr Bueso <dave@gnu.org>
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2012 Cody Maloney <cmaloney@theoreticalchaos.com>
2012 Werner Fink <werner@suse.de>
2013,2014 Ondrej Oprala <ooprala@redhat.com>
License: GPL-2+

Files: schedutils/ionice.c
Copyright: 2005 Jens Axboe <jens@axboe.dk>
License: GPL-2

Files: schedutils/chrt.c
schedutils/taskset.c
Copyright: 2004 Robert Love <rml@tech9.net>
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Files: disk-utils/raw.c
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Files: sys-utils/nsenter.c
Copyright: 2012-2013 Eric Biederman <ebiederm@xmission.com>
License: GPL-2

Files: disk-utils/mkfs.minix.c
disk-utils/mkswap.c
Copyright: 1991, 1992 Linus Torvalds
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Files: lib/at.c
lib/blkdev.c
lib/loopdev.c
lib/sysfs.c
lib/ttyutils.c
lib/xgetpass.c
misc-utils/mcookie.c
sys-utils/setsid.c
text-utils/line.c
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Files: login-utils/vipw.c
misc-utils/cal.c
misc-utils/kill.c
misc-utils/logger.c

misc-utils/look.c
misc-utils/whereis.c
sys-utils/renice.c
term-utils/mesg.c
term-utils/script.c
term-utils/ttymsg.c
term-utils/wall.c
term-utils/write.c
text-utils/col.c
text-utils/colcrt.c
text-utils/colrm.c
text-utils/column.c
text-utils/hexdump.c
text-utils/hexdump.h
text-utils/hexdump-conv.c
text-utils/hexdump-display.c
text-utils/hexdump-parse.c
text-utils/rev.c
text-utils/ul.c
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The Regents of the University of California
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License: BSD-4-clause

Files: text-utils/tailf.c
Copyright: 1996, 2003 Rickard E. Faith (faith@acm.org)
License: MIT

Files:
sys-utils/flock.c
Copyright: 2003-2005 H. Peter Anvin
License: MIT

Files: text-utils/pg.c
Copyright: 2000-2001 Gunnar Ritter
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Files: login-utils/last-deprecated.c
Copyright: 1987 Regents of the University of California
License: BSD-2-clause

Files: login-utils/login.c
Copyright: 1980, 1987, 1988 The Regents of the University of California.
2011 Karel Zak <kzak@redhat.com>
License: BSD-2-clause

Files: login-utils/logindefs.c

Copyright: 2003, 2004, 2005 Thorsten Kukuk
License: BSD-3-clause

Files: libuuid/*
libuuid/src/*
libuuid/man/*
Copyright: 1996, 1997, 1998, 1999, 2007 Theodore Ts'o.
1999 Andreas Dilger (adilger@enel.ucalgary.ca)
License: BSD-3-clause

Files: lib/procutils.c
include/xalloc.h
Copyright: 2010, 2011 Davidlohr Bueso <dave@gnu.org>
License: LGPL-2+

Files: */colors.*
Copyright: 2012 Ondrej Oprala <ooprala@redhat.com>
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1.536 fdisk 2.34-0.1ubuntu9.4

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

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1.541 glib 2.64.6-1~ubuntu20.04.6

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

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1.542 libudev 245.4-4ubuntu3.22

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1.546 ncurses 6.2-0ubuntu2.1

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1.547 github.com/gorilla/schema v1.2.0

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1.548 shim 0.3

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1.549 openssl 1.1.1v

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1.557 x-time v0.0.0-20210723032227-1f47c861a9ac

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1.559 githubcomgolangprotobuf v1.5.2

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1.560 json iterator go v1.1.12

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1.562 go.starlark.net v0.0.0-20200306205701-8dd3e2ee1dd5

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1.563 githubcompelletiergotoml v1.9.4

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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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1.580 github.com/fvbommel/sortorder v1.0.1

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1.588 universal-translator v0.18.0

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1.591 jsonpatch v4.11.0

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1.592 rsync 3.1.3-8ubuntu0.7

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1.596 libx11 2:1.6.9-2ubuntu1.6

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1.597 libxdata 2:1.6.9-2ubuntu1.6

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1.599 juju-errors 0.0.0-20220203013757-bd733f3c86b9

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1.601 go-toml 1.9.4

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localtime.go, localtime_test.go:

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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.

* 'Local' prefix added to all structs.
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1.602 curl 7.68.0-1ubuntu2.20

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1.603 go-restful 3.8.0

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1.605 vcs 1.13.3

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1.606 libssl 1.1.1f-1ubuntu2.20

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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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/@WBRSRlBZDhBFXQB6/>
 * 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

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

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

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

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

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

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

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.

 * Documentation re-write.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

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

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

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

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

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

1.610 procps 3.3.16-1ubuntu2.4

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable
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d) If a facility in the modified
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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,
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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
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version 0.1
##
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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.615 nghttp2 1.40.0-1ubuntu0.2

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.616 libnghttp2-14 1.40.0-1ubuntu0.2

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.617 python3.8 3.8.10-0ubuntu1~20.04.9

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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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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1.622 libcurl 7.68.0-1ubuntu2.21

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1.624 sqlite 3.31.1-4ubuntu0.6

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1.625 openssh 8.2p1-4ubuntu0.11

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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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*
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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(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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must be distributed
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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,
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6. As an exception to the Sections above, you may also combine or
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For an executable, the required form of the "work that uses the

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1.631 systemd 245.4-4ubuntu3.23

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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.635 openssh 1:8.2p1-4ubuntu0.11

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
license. Please forward this email to Kurt so he does the appropriate
changes to the files to reflect this.

Regards, Juan

MA
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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-Mark

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---

 * To: Stephen Frost <sfrost@snowman.net>
 * Subject: Re: OpenLDAP Licenseing issues
 * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
 * Date: Wed, 28 May 2003 10:55:44 -0700
 * Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
 * In-reply-to: <20030528162613.GB8524@ns.snowman.net>
 * Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
 * Old-return-path: <Kurt@OpenLDAP.org>

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you think are necessary. I suggest you contact University's general
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Regards, Kurt

1.637 ssh 1:8.2p1-4ubuntu0.11

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[Tatu continues]

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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
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- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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* @version 3.0 (December 2000)
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* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.638 python-certifi 2019.11.28-1

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.639 rcrowley-gometrics v0.0.0-20181016184325-3113b8401b8a

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1.643 mergo 0.3.6

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

1.644 gorilla 1.8.0

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1.645 gopkg.in-yaml 3.0.1

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1.646 go-autorest-logging 0.2.1

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1.647 libc 2.31-0ubuntu9.12

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================================================================================
ii  a11y-profile-manager-indicator        0.1.10-0ubuntu3              amd64        Accessibility
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ii  account-plugin-facebook               0.12+16.04.20160126-0ubuntu1 all          GNOME
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ii  accountsservice                       0.6.40-2ubuntu11.3           amd64        query and
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ii  acl                                  2.2.52-3                     amd64        Access control list utilities
ii  acpi-support                          0.142                        amd64        scripts for handling many
ACPI events
ii  acpid                                1:2.0.26-1ubuntu2            amd64        Advanced Configuration
and Power Interface event daemon
ii  activity-log-manager
                        0.9.7-0ubuntu23              amd64        blacklist configuration user interface for
Zeitgeist
ii  adduser                               3.113+nmu3ubuntu4            all          add and remove users
and groups
ii  adium-theme-ubuntu                    0.3.4-0ubuntu1.1             all          Adium message style
for Ubuntu
ii  adwaita-icon-theme                    3.18.0-2ubuntu3.1            all          default icon theme of
GNOME (small subset)
ii  aisleriot                             1:3.18.2-1ubuntu1            amd64        GNOME solitaire card
game collection
ii  alsa-base                             1.0.25+dfsg-0ubuntu5         all          ALSA driver
configuration files
ii  alsa-utils
           1.1.0-0ubuntu5               amd64        Utilities for configuring and using ALSA
ii  anacron                               2.3-23                       amd64        cron-like program that
doesn't go by time
ii  ant                                  1.9.6-1ubuntu1               all          Java based build tool like make
ii  ant-optional                          1.9.6-1ubuntu1               all          Java based build tool like
```

make - optional libraries
ii apg 2.2.3.dfsg.1-2ubuntu1 amd64 Automated Password Generator - Standalone version
ii app-install-data 15.10 all Ubuntu applications (data files)
ii app-install-data-partner 16.04 all Application Installer (data files for partner applications/repositories)
ii apparmor 2.10.95-0ubuntu2.5 amd64 user-space parser utility for AppArmor
ii appmenu-qt:amd64 0.2.7+14.04.20140305-0ubuntu2 amd64 application menu for Qt
ii appmenu-qt5 0.3.0+16.04.20151130-0ubuntu1 amd64 application menu for Qt5
ii apport 2.20.1-0ubuntu2.5 all automatically generate crash reports for debugging
ii apport-gtk 2.20.1-0ubuntu2.5 all GTK+ frontend for the apport crash report system
ii apport-symptoms 0.20 all symptom scripts for apport
ii appstream 0.9.4-1ubuntu2 amd64 Software component index
ii apt 1.2.18 amd64 commandline package manager
ii apt-transport-https 1.2.18 amd64 https download transport for APT
ii apt-utils 1.2.18 amd64 package management related utility programs
ii aptdaemon 1.1.1+bzr982-0ubuntu14 all transaction based package management service
ii aptdaemon-data 1.1.1+bzr982-0ubuntu14 all data files for clients
ii apturl 0.5.2ubuntu11.1 amd64 install packages using the apt protocol - GTK+ frontend
ii apturl-common 0.5.2ubuntu11.1 amd64 install packages using the apt protocol - common data
ii aspell 0.60.7~20110707-3build1 amd64 GNU Aspell spell-checker
ii aspell-en 7.1-0-1.1 all English dictionary for GNU Aspell
ii asymptote 2.37-1 amd64 script-based vector graphics language inspired by MetaPost
ii asymptote-doc 2.37-1 all documentation and examples for asymptote
ii at-spi2-core 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider Interface (dbus core)
ii atom 1.8.0 amd64 A hackable text editor for the 21st Century.
ii autotools-dev 20150820.1 all Update infrastructure for config.{guess,sub} files

ii avahi-autoipd 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi IPv4LL network address configuration daemon
ii avahi-daemon 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi mDNS/DNS-SD daemon
ii avahi-utils 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi browsing, publishing and discovery utilities
ii bamfdaemon 0.5.3~bzr0+16.04.20160824-0ubuntu1 amd64 Window matching library - daemon
ii baobab 3.18.1-1ubuntu1 amd64 GNOME disk usage analyzer
ii base-files 9.4ubuntu4.3 amd64 Debian base system miscellaneous files
ii base-passwd 3.5.39 amd64 Debian base system master password and group files
ii bash 4.3-14ubuntu1.1 amd64 GNU Bourne Again SHell
ii bash-completion 1:2.1-4.2ubuntu1.1 all programmable completion for the bash shell
ii bc 1.06.95-9build1 amd64 GNU bc arbitrary precision calculator language
ii bind9-host 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Version of 'host' bundled with BIND 9.X
ii binfmt-support 2.1.6-1 amd64 Support for extra binary formats
ii binutils 2.26.1-1ubuntu1~16.04.3 amd64 GNU assembler, linker and binary utilities
ii bison 2:3.0.4.dfsg-1 amd64 YACC-compatible parser generator
ii blt 2.5.3+dfsg-3 amd64 graphics extension library for Tcl/Tk - run-time
ii bluez 5.37-0ubuntu5 amd64 Bluetooth tools and daemons
ii bluez-cups 5.37-0ubuntu5 amd64 Bluetooth printer driver for CUPS
ii bluez-obexd 5.37-0ubuntu5 amd64 bluez obex daemon
ii brackets 1.8.0libgcrypt11-17108+1~webupd8~0 amd64 Brackets
ii branding-ubuntu 0.8 all Replacement artwork with Ubuntu branding
ii brltty 5.3.1-2ubuntu2.1 amd64 Access software for a blind person using a braille display
ii bsdmainutils 9.0.6ubuntu3 amd64 collection of more utilities from FreeBSD
ii bsdutils 1:2.27.1-6ubuntu3.2 amd64 basic utilities from 4.4BSD-Lite
ii build-essential 12.1ubuntu2 amd64 Informational list of build-essential packages
ii busybox-initramfs 1:1.22.0-15ubuntu1 amd64 Standalone shell setup for initramfs

ii busybox-static 1:1.22.0-15ubuntu1 amd64 Standalone rescue shell with tons of builtin utilities
ii byacc 20140715-1 amd64 public domain Berkeley LALR Yacc parser generator
ii bzip2 1.0.6-8 amd64 high-quality block-sorting file compressor - utilities
ii ca-certificates 20160104ubuntu1 all Common CA certificates
ii ca-certificates-mono 4.2.1.102+dfsg2-7ubuntu4 all Common CA certificates (Mono keystore)
ii ccache 3.2.4-1 amd64 Compiler cache for fast recompilation of C/C++ code
ii checkbox-converged 1.2.4-0ubuntu1 all testing tool for all Ubuntu devices
ii checkbox-gui 1.2.4-0ubuntu1 all QML based interface for checkbox (transitional package)
ii checkinstall 1.6.2-4ubuntu1 amd64 installation tracker
ii cheese 3.18.1-2ubuntu3 amd64 tool to take pictures and videos from your webcam
ii cheese-common 3.18.1-2ubuntu3 all Common files for the Cheese tool to take pictures and videos
ii chromium-codecs-ffmpeg-extra 55.0.2883.87-0ubuntu0.16.04.1263 amd64 Extra ffmpeg codecs for the Chromium Browser
ii clang 1:3.8-33ubuntu3.1 amd64 C, C++ and Objective-C compiler (LLVM based)
ii clang-3.8 1:3.8-2ubuntu4 amd64 C, C++ and Objective-C compiler (LLVM based)
ii cli-common 0.9+nmu1 all common files between all CLI packages
ii cli-common-dev 0.9+nmu1 all common files for building CLI packages
ii cmake 3.5.1-1ubuntu3 amd64 cross-platform, open-source make system
ii cmake-curses-gui 3.5.1-1ubuntu3 amd64 curses based user interface for CMake (ccmake)
ii cmake-data 3.5.1-1ubuntu3 all CMake data files (modules, templates and documentation)
ii colord 1.2.12-1ubuntu1 amd64 system service to manage device colour profiles -- system daemon
ii colord-data 1.2.12-1ubuntu1 all system service to manage device colour profiles -- data files
ii command-not-found 0.3ubuntu16.04.2 all Suggest installation of packages in interactive bash sessions
ii command-not-found-data 0.3ubuntu16.04.2 amd64 Set of data files for command-not-found.
ii compiz 1:0.9.12.2+16.04.20160823-0ubuntu1 all OpenGL window and compositing manager
ii compiz-core 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL

window and compositing manager
ii compiz-gnome 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL window and compositing manager - GNOME window decorator
ii compiz-plugins-default:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL window and compositing manager - default plugins
ii compizconfig-settings-manager 1:0.9.12.2+16.04.20160823-0ubuntu1 all Compiz configuration settings manager
ii console-setup 1.108ubuntu15.2 all console font and keymap setup program
ii console-setup-linux 1.108ubuntu15.2 all Linux specific part of console-setup
ii coreutils 8.25-2ubuntu2 amd64 GNU core utilities
ii cpio 2.11+dfsg-5ubuntu1 amd64 GNU cpio -- a program to manage archives of files
ii cpp 4:5.3.1-1ubuntu1 amd64 GNU C preprocessor (cpp)
ii cpp-4.9 4.9.3-13ubuntu2 amd64 GNU C preprocessor
ii cpp-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C preprocessor
ii cracklib-runtime 2.9.2-1build2 amd64 runtime support for password checker library cracklib2
ii crda 3.13-1 amd64 wireless Central Regulatory Domain Agent
ii cron 3.0pl1-128ubuntu2 amd64 process scheduling daemon
ii cryptsetup 2:1.6.6-5ubuntu2 amd64 disk encryption support - startup scripts
ii cryptsetup-bin 2:1.6.6-5ubuntu2 amd64 disk encryption support - command line tools
ii cups 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD/driver support, web interface
ii cups-backend-bjnp 2.0-0ubuntu2 amd64 printer backend for Canon BJNP protocol
ii cups-browsed 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - cups-browsed
ii cups-bsd 2.1.3-4 amd64 Common UNIX Printing System(tm) - BSD commands
ii cups-client 2.1.3-4 amd64 Common UNIX Printing System(tm) - client programs (SysV)
ii cups-common 2.1.3-4 all Common UNIX Printing System(tm) - common files
ii cups-core-drivers 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD-less printing
ii cups-daemon 2.1.3-4 amd64 Common UNIX Printing System(tm) - daemon
ii cups-filters 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Main Package
ii cups-filters-core-drivers 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS

Filters - PPD-less printing
ii cups-pk-helper 0.2.5-2ubuntu2 amd64 PolicyKit helper to configure cups with fine-grained privileges
ii cups-ppdc 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD manipulation utilities
ii cups-server-common 2.1.3-4 all Common UNIX Printing System(tm) - server common files
ii curl 7.47.0-1ubuntu2.2 amd64 command line tool for transferring data with URL syntax
ii dash 0.5.8-2.1ubuntu2 amd64 POSIX-compliant shell
ii dbus 1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system (daemon and utilities)
ii dbus-x11 1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system (X11 deps)
ii dc 1.06.95-9build1 amd64 GNU dc arbitrary precision reverse-polish calculator
ii dconf-cli 0.24.0-2 amd64 simple configuration storage system - utilities
ii dconf-gsettings-backend:amd64 0.24.0-2 amd64 simple configuration storage system - GSettings back-end
ii dconf-gsettings-backend:i386 0.24.0-2 i386 simple configuration storage system - GSettings back-end
ii dconf-service 0.24.0-2 amd64 simple configuration storage system - D-Bus service
ii debconf 1.5.58ubuntu1 all Debian configuration management system
ii debconf-i18n 1.5.58ubuntu1 all full internationalization support for debconf
ii debhelper 9.20160115ubuntu3 all helper programs for debian/rules
ii debianutils 4.7 amd64 Miscellaneous utilities specific to Debian
ii deja-dup 34.2-0ubuntu1.1 amd64 Back up your files
ii deja-dup-backend-gvfs 34.2-0ubuntu1.1 all Remote server support for Déjà Dup
ii desktop-file-utils 0.22-1ubuntu5 amd64 Utilities for .desktop files
ii dh-python 2.20151103ubuntu1.1 all Debian helper tools for packaging Python libraries and applications
ii dh-strip-nondeterminism 0.015-1 all debhelper add-on to strip non-determinism from files
ii dictionaries-common 1.26.3 all spelling dictionaries - common utilities
ii diffstat 1.61-1 amd64 produces graph of changes introduced by a diff file
ii diffutils 1:3.3-3 amd64 File comparison utilities
ii dirmngr

2.1.11-6ubuntu2 amd64 server for managing certificate revocation lists
ii distro-info-data 0.28ubuntu0.2 all information about the distributions' releases (data files)
ii dmidecode 3.0-2ubuntu0.1 amd64 SMBIOS/DMI table decoder
ii dmsetup 2:1.02.110-1ubuntu10 amd64 Linux Kernel Device Mapper userspace library
ii dmz-cursor-theme 0.4.4ubuntu1 all Style neutral, scalable cursor theme
ii dns-root-data 2015052300+h+1 all DNS root data including root zone and DNSSEC key
ii dnsmasq-base 2.75-1ubuntu0.16.04.1 amd64 Small caching DNS proxy and DHCP/TFTP server
ii dnsutils 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Clients provided with BIND
ii doc-base 0.10.7 all utilities to manage online documentation
ii docutils-common 0.12+dfsg-1 all text processing system for reStructuredText - common data
ii docutils-doc 0.12+dfsg-1 all text processing system for reStructuredText - documentation
ii dosfstools 3.0.28-2ubuntu0.1 amd64 utilities for making and checking MS-DOS
FAT filesystems
ii dpkg 1.18.4ubuntu1.1 amd64 Debian package management system
ii dpkg-dev 1.18.4ubuntu1.1 all Debian package development tools
ii dropbox 2015.10.28 amd64 cloud synchronization engine - CLI and Nautilus extension
ii duplicity 0.7.06-2ubuntu2 amd64 encrypted bandwidth-efficient backup
ii e2fslibs:amd64 1.42.13-1ubuntu1 amd64 ext2/ext3/ext4 file system libraries
ii e2fsprogs 1.42.13-1ubuntu1 amd64 ext2/ext3/ext4 file system utilities
ii ecryptfs-utils 111-0ubuntu1.1 amd64 ecryptfs cryptographic filesystem (utilities)
ii ed 1.10-2 amd64 classic UNIX line editor
ii efibootmgr 0.12-4 amd64 Interact with the EFI Boot Manager
ii eject 2.1.5+deb1+cvs20081104-13.1 amd64 ejects CDs and operates CD-Changers under Linux
ii emacsen-common 2.0.8 all Common facilities for all emacsen

ii enchant:i386 1.6.0-10.1build2 i386 Wrapper for various spell checker engines (binary programs)
ii eog 3.18.2-1ubuntu2.1 amd64 Eye of GNOME graphics viewer program
ii espeak-data:amd64 1.48.04+dfsg-2 amd64 Multi-lingual software speech synthesizer: speech data files
ii ethtool 1:4.5-1 amd64 display or change Ethernet device settings
ii evince 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) viewer
ii evince-common 3.18.2-1ubuntu4 all Document (PostScript, PDF) viewer - common files
ii evolution-data-server 3.18.5-1ubuntu1 amd64 evolution database backend server
ii evolution-data-server-common 3.18.5-1ubuntu1 all architecture independent files for Evolution Data Server
ii evolution-data-server-online-accounts 3.18.5-1ubuntu1 amd64 evolution data server integration with Ubuntu Online Accounts
ii example-content 49 all Ubuntu example content
ii exuberant-ctags 1:5.9~svn20110310-11 amd64 build tag file indexes of source code definitions
ii fakeroot 1.20.2-1ubuntu1 amd64 tool for simulating superuser privileges
ii file 1:5.25-2ubuntu1 amd64 Determines file type using "magic" numbers
ii file-roller 3.16.5-0ubuntu1.2 amd64 archive manager for GNOME
ii findutils 4.6.0+git+20160126-2 amd64 utilities for finding files--find, xargs
ii firefox 51.0.1+build2-0ubuntu0.16.04.2 amd64 Safe and easy web browser from Mozilla
ii firefox-locale-en 51.0.1+build2-0ubuntu0.16.04.2 amd64 English language pack for Firefox
ii firefox-locale-it 51.0.1+build2-0ubuntu0.16.04.2 amd64 Italian language pack for Firefox
ii flashplugin-installer 24.0.0.194ubuntu0.16.04.1 amd64 Adobe Flash Player plugin installer
ii flex 2.6.0-11 amd64 fast lexical analyzer generator
ii fontconfig 2.11.94-0ubuntu1.1 amd64 generic font configuration library - support binaries
ii fontconfig-config 2.11.94-0ubuntu1.1 all generic font configuration library - configuration
ii fonts-dejavu-core 2.35-1 all Vera font family derivate with additional characters
ii fonts-font-awesome 4.5.0~dfsg-1 all iconic font designed for

use with Twitter Bootstrap
ii fonts-freefont-ttf 20120503-4 all Freefont Serif, Sans and Mono Truetype fonts
ii fonts-guru 2:1.2 all Meta package to install all Punjabi fonts
ii fonts-guru-extra 2.0-3 all Free fonts for Punjabi language
ii fonts-kacst 2.01+mry-12 all KACST free TrueType Arabic fonts
ii fonts-kacst-one 5.0+svn11846-7 all TrueType font designed for Arabic language
ii fonts-khmeros-core 5.0-7ubuntu1 all KhmerOS Unicode fonts for the Khmer language of Cambodia
ii fonts-lao 0.0.20060226-9 all TrueType font for Lao language
ii fonts-lato 2.0-1 all sans-serif typeface family font
ii fonts-liberation 1.07.4-1 all Fonts with the same metrics as Times, Arial and Courier
ii fonts-lklug-sinhala 0.6-3 all Unicode Sinhala font by Lanka Linux User Group
ii fonts-lmodern 2.004.5-1 all OpenType fonts based on Computer Modern
ii fonts-lohit-guru 2.5.3-2 all Lohit TrueType font for Punjabi Language
ii fonts-lyx 2.1.4-2 all TrueType versions of some TeX fonts used by LyX
ii fonts-nanum 20140930-1 all Nanum Korean fonts
ii fonts-noto-cjk 1:1.004+repack2-1~ubuntu1 all "No Tofu" font families with large Unicode coverage (CJK)
ii fonts-opensymbol 2:102.7+LibO5.1.4-0ubuntu1 all OpenSymbol TrueType font
ii fonts-sil-abyssinica 1.500-1 all smart Unicode font for Ethiopian and Erythrean scripts (Amharic et al.)
ii fonts-sil-padauk 2.80-2 all smart Unicode font for languages in Myanmar
ii fonts-stix 1.1.1-4 all Scientific and Technical Information eXchange fonts
ii fonts-symbola 2.59-1 all symbolic font providing emoji characters from Unicode 7.0
ii fonts-takao-pgothic 003.02.01-9ubuntu3 all Japanese TrueType font set, Takao P Gothic Fonts
ii fonts-texgyre 20150923-1 all OpenType fonts based on URW Fonts
ii fonts-thai-tlwg 1:0.6.2-2.1 all Thai fonts maintained by TLWG (metapackage)
ii fonts-tibetan-machine 1.901b-5 all font for Tibetan,

Dzongkha and Ladakhi (OpenType Unicode)
ii fonts-tlwg-garuda 1:0.6.2-2.1 all Thai Garuda font (dependency package)
ii fonts-tlwg-garuda-ttf 1:0.6.2-2.1 all Thai Garuda TrueType font
ii fonts-tlwg-kinnari 1:0.6.2-2.1 all Thai Kinnari font (dependency package)
ii fonts-tlwg-kinnari-ttf 1:0.6.2-2.1 all Thai Kinnari TrueType font
ii fonts-tlwg-laksaman 1:0.6.2-2.1 all Thai Laksaman font (dependency package)
ii fonts-tlwg-laksaman-ttf 1:0.6.2-2.1 all Thai Laksaman TrueType font
ii fonts-tlwg-loma 1:0.6.2-2.1 all Thai Loma font (dependency package)
ii fonts-tlwg-loma-ttf 1:0.6.2-2.1 all Thai Loma TrueType font
ii fonts-tlwg-mono 1:0.6.2-2.1 all Thai TlwgMono font (dependency package)
ii fonts-tlwg-mono-ttf 1:0.6.2-2.1 all Thai TlwgMono TrueType font
ii fonts-tlwg-norasi 1:0.6.2-2.1 all Thai Norasi font (dependency package)
ii fonts-tlwg-norasi-ttf 1:0.6.2-2.1 all Thai Norasi TrueType font
ii fonts-tlwg-purisa 1:0.6.2-2.1 all Thai Purisa font (dependency package)
ii fonts-tlwg-purisa-ttf 1:0.6.2-2.1 all Thai Purisa TrueType font
ii fonts-tlwg-sawasdee 1:0.6.2-2.1 all Thai Sawasdee font (dependency package)
ii fonts-tlwg-sawasdee-ttf 1:0.6.2-2.1 all Thai Sawasdee TrueType font
ii fonts-tlwg-typewriter 1:0.6.2-2.1 all Thai TlwgTypewriter font (dependency package)
ii fonts-tlwg-typewriter-ttf 1:0.6.2-2.1 all Thai TlwgTypewriter TrueType font
ii fonts-tlwg-typist 1:0.6.2-2.1 all Thai TlwgTypist font (dependency package)
ii fonts-tlwg-typist-ttf 1:0.6.2-2.1 all Thai TlwgTypist TrueType font
ii fonts-tlwg-typo 1:0.6.2-2.1 all Thai TlwgTypo font (dependency package)
ii fonts-tlwg-typo-ttf 1:0.6.2-2.1 all Thai TlwgTypo TrueType font
ii fonts-tlwg-umpush 1:0.6.2-2.1 all Thai Umpush font (dependency package)
ii fonts-tlwg-umpush-ttf 1:0.6.2-2.1 all Thai Umpush TrueType font
ii fonts-tlwg-waree 1:0.6.2-2.1 all Thai Waree font

(dependency package)
ii fonts-tlwg-waree-ttf 1:0.6.2-2.1 all Thai Waree TrueType font
ii foomatic-db-compressed-ppds 20160212-0ubuntu1 all OpenPrinting printer support - Compressed PPDs derived from the database
ii fortune-mod 1:1.99.1-7 amd64 provides fortune cookies on demand
ii fortunes-min 1:1.99.1-7 all Data files containing selected fortune cookies
ii freeglut3:amd64 2.8.1-2 amd64 OpenGL Utility Toolkit
ii freepats 20060219-1 all Free patch set for MIDI audio synthesis
ii friendly-recovery 0.2.31 all Make recovery more user-friendly
ii ftp 0.17-33 amd64 classical file transfer client
ii fuse 2.9.4-1ubuntu3.1 amd64 Filesystem in Userspace
ii fwupd 0.7.0-0ubuntu4.3 amd64 Firmware update daemon
ii fwupdate 0.5-2ubuntu4 amd64 Tools to manage UEFI firmware updates
ii fwupdate-signed 1.11+0.5-2ubuntu4 amd64 Linux Firmware Updater EFI signed binary
ii g++ 4:5.3.1-1ubuntu1 amd64 GNU C++ compiler
ii g++-4.9 4.9.3-13ubuntu2 amd64 GNU C++ compiler
ii g++-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C++ compiler
ii gcc 4:5.3.1-1ubuntu1 amd64 GNU C compiler
ii gcc-4.9 4.9.3-13ubuntu2 amd64 GNU C compiler
ii gcc-4.9-base:amd64 4.9.3-13ubuntu2 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C compiler
ii gcc-5-base:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-5-base:i386 5.4.0-6ubuntu1~16.04.4 i386 GCC, the GNU Compiler Collection (base package)
ii gcc-6-base:amd64 6.0.1-0ubuntu1 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-6-base:i386 6.0.1-0ubuntu1 i386 GCC, the GNU Compiler Collection (base package)
ii gconf-service 3.2.6-3ubuntu6 amd64 GNOME configuration database system (D-Bus service)
ii gconf-service-backend 3.2.6-3ubuntu6 amd64 GNOME configuration database system (D-Bus service)
ii gconf2 3.2.6-3ubuntu6 amd64 GNOME configuration database system (support tools)
ii gconf2-common 3.2.6-3ubuntu6 all GNOME configuration database system

(common files)
ii gcr 3.18.0-1ubuntu1 amd64 GNOME crypto services (daemon and tools)
ii gdb 7.11.1-0ubuntu1~16.04 amd64 GNU Debugger
ii gdbserver 7.11.1-0ubuntu1~16.04 amd64 GNU Debugger (remote server)
ii gdisk 1.0.1-1build1 amd64 GPT fdisk text-mode partitioning tool
ii gedit 3.18.3-0ubuntu4 amd64 official text editor of the GNOME desktop environment
ii gedit-common 3.18.3-0ubuntu4 all official text editor of the GNOME desktop environment (support files)
ii genisoimage 9:1.1.11-3ubuntu1 amd64 Creates ISO-9660 CD-ROM filesystem images
ii geoclue 0.12.99-4ubuntu1 amd64 Geographic information framework
ii geoclue-ubuntu-geoip 1.0.2+14.04.20131125-0ubuntu2 amd64 Provide positioning for GeoClue via Ubuntu GeoIP services
ii geogebra 4.0.34.0+dfsg1-3 all Dynamic mathematics software for education
ii geoip-database 20160408-1 all IP lookup command line tools that use the GeoIP library (country database)
ii gettext 0.19.7-2ubuntu3 amd64 GNU Internationalization utilities
ii gettext-base 0.19.7-2ubuntu3 amd64 GNU Internationalization utilities for the base system
ii gfortran 4:5.3.1-1ubuntu1 amd64 GNU Fortran 95 compiler
ii gfortran-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU Fortran compiler
ii ghostscript 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF
ii ghostscript-x 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF - X11 support
ii gir1.2-accounts-1.0:amd64 1.21+16.04.20160222-0ubuntu1 amd64 typelib file for libaccounts-glib0
ii gir1.2-appindicator3-0.1 12.10.1+15.04.20141110-0ubuntu1 amd64 Typelib files for libappindicator3-1.
ii gir1.2-atk-1.0 2.18.0-1 amd64 ATK accessibility toolkit (GObject introspection)
ii gir1.2-atspi-2.0 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider (GObject introspection)
ii gir1.2-dbusmenu-glib-0.4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 typelib file for libdbusmenu-glib4
ii gir1.2-dee-1.0 1.2.7+15.04.20150304-0ubuntu2 amd64 GObject introspection data for the Dee library

ii gir1.2-freedesktop:amd64 1.46.0-3ubuntu1 amd64 Introspection data for some FreeDesktop components
ii gir1.2-gdata-0.0:amd64 0.17.4-1 amd64 GObject introspection data for the GData webservices library
ii gir1.2-gdkpixbuf-2.0:amd64 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf library - GObject-Introspection
ii gir1.2-glib-2.0:amd64 1.46.0-3ubuntu1 amd64 Introspection data for GLib, GObject, Gio and GModule
ii gir1.2-gnomekeyring-1.0 3.12.0-1build1 amd64 GNOME keyring services library - introspection data
ii gir1.2-goa-1.0:amd64 3.18.3-1ubuntu2 amd64 Introspection data for GNOME Online Accounts
ii gir1.2-gst-plugins-base-1.0 1.8.2-1ubuntu0.2 amd64 GObject introspection data for the GStreamer Plugins Base library
ii gir1.2-gstreamer-1.0 1.8.2-1~ubuntu1 amd64 GObject introspection data for the GStreamer library
ii gir1.2-gtk-2.0 2.24.30-1ubuntu1 amd64 GTK+ graphical user interface library -- gir bindings
ii gir1.2-gtk-3.0:amd64 3.18.9-1ubuntu3.1 amd64 GTK+ graphical user interface library -- gir bindings
ii gir1.2-gtksource-3.0:amd64 3.18.2-1 amd64 gir files for the GTK+ syntax highlighting widget
ii gir1.2-gudev-1.0:amd64 1:230-2 amd64 libgudev-1.0 introspection data
ii gir1.2-ibus-1.0:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - introspection data
ii gir1.2-javascriptcoregtk-4.0:amd64 2.14.3-0ubuntu0.16.04.1 amd64 JavaScript engine library from WebKitGTK+ - GObject introspection data
ii gir1.2-json-1.0:amd64 1.1.2-0ubuntu1 amd64 GLib JSON manipulation library (introspection data)
ii gir1.2-notify-0.7 0.7.6-2svn1 amd64 sends desktop notifications to a notification daemon (Introspection files)
ii gir1.2-packagekitglib-1.0 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 amd64 GObject introspection data for the PackageKit GLib library
ii gir1.2-pango-1.0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text - gir bindings
ii gir1.2-peas-1.0:amd64 1.16.0-1ubuntu2 amd64 Application plugin library (introspection files)
ii gir1.2-rb-3.0:amd64 3.3-1ubuntu7 amd64 GObject introspection data for the rhythmbox music player
ii gir1.2-secret-1:amd64 0.18.4-1ubuntu2 amd64 Secret store (GObject-Introspection)
ii gir1.2-signon-1.0 1.13+16.04.20151209.1-0ubuntu1 amd64 GObject introspection data for the Signon library
ii gir1.2-soup-2.4 2.52.2-1ubuntu0.1 amd64 GObject introspection data for the libsoup HTTP library
ii gir1.2-totem-1.0:amd64 3.18.1-1ubuntu4

amd64 GObject introspection data for Totem media player
ii gir1.2-totem-plparser-1.0:amd64 3.10.6-1ubuntu1 amd64 GObject introspection data for the Totem Playlist Parser library
ii gir1.2-udisks-2.0:amd64 2.1.7-1ubuntu1 amd64 GObject based library to access udisks2 - introspection data
ii gir1.2-unity-5.0:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 GObject introspection data for the Unity library
ii gir1.2-vte-2.91:amd64 0.42.5-1ubuntu1 amd64 GObject introspection data for the VTE library
ii gir1.2-webkit2-4.0:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+ - GObject introspection data
ii
gir1.2-wnck-3.0:amd64 3.14.1-2 amd64 GObject introspection data for the WNCK library
ii git 1:2.7.4-0ubuntu1 amd64 fast, scalable, distributed revision control system
ii git-man 1:2.7.4-0ubuntu1 all fast, scalable, distributed revision control system (manual pages)
ii gkbd-capplet 3.6.0-1ubuntu2 amd64 GNOME control center tools for libgnomekbd
ii glib-networking:amd64 2.48.2-1~ubuntu16.04.1 amd64 network-related giomodules for GLib
ii glib-networking:i386 2.48.2-1~ubuntu16.04.1 i386 network-related giomodules
for GLib
ii glib-networking-common 2.48.2-1~ubuntu16.04.1 all network-related giomodules for GLib - data files
ii glib-networking-services 2.48.2-1~ubuntu16.04.1 amd64 network-related giomodules for GLib - D-Bus services
ii gnome-accessibility-themes 3.18.0-2ubuntu1 all Accessibility themes for the GNOME desktop
ii gnome-bluetooth 3.18.2-1ubuntu2 amd64 GNOME Bluetooth tools
ii gnome-calculator 1:3.18.3-0ubuntu1.16.04.1 amd64 GNOME desktop calculator
ii gnome-calendar 3.20.4-0ubuntu0.1 amd64 Calendar application for GNOME
ii gnome-desktop3-data
3.18.2-1ubuntu1 all Common files for GNOME desktop apps
ii gnome-disk-utility 3.18.3.1-1ubuntu1 amd64 manage and configure disk drives and media
ii gnome-font-viewer 3.16.2-1ubuntu1 amd64 font viewer for GNOME
ii gnome-keyring 3.18.3-0ubuntu2 amd64 GNOME keyring services (daemon and tools)
ii gnome-mahjongg 1:3.18.0-1 amd64 classic Eastern tile game for GNOME
ii gnome-menus 3.13.3-6ubuntu3.1 amd64 GNOME

implementation of the freedesktop menu specification
ii gnome-mines
1:3.18.2-2 amd64 popular minesweeper puzzle game for GNOME
ii gnome-orca 3.18.2-1ubuntu3 all Scriptable screen reader
ii gnome-power-manager 3.18.0-1ubuntu1 amd64 power
management tool for the GNOME desktop
ii gnome-screensaver 3.6.1-7ubuntu4 amd64 GNOME screen
saver and locker
ii gnome-screenshot 3.18.0-1ubuntu2 amd64 screenshot
application for GNOME
ii gnome-session-bin 3.18.1.2-1ubuntu1.16.04.2 amd64 GNOME
Session Manager - Minimal runtime
ii gnome-session-canberra 0.30-2.1ubuntu1
amd64 GNOME session log in and log out sound events
ii gnome-session-common 3.18.1.2-1ubuntu1.16.04.2 all GNOME
Session Manager - common files
ii gnome-settings-daemon-schemas 3.18.2-0ubuntu3.1 all gnome-settings-
daemon schemas
ii gnome-software 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 amd64
Software Center for GNOME
ii gnome-software-common 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 all
Software Center for GNOME (common files)
ii gnome-sudoku 1:3.18.4-0ubuntu2 amd64 Sudoku puzzle game
for GNOME
ii gnome-system-log 3.9.90-4 amd64 system log viewer for
GNOME
ii
gnome-system-monitor 3.18.2-1ubuntu1 amd64 Process viewer and
system resource monitor for GNOME
ii gnome-terminal 3.18.3-1ubuntu1 amd64 GNOME terminal
emulator application
ii gnome-terminal-data 3.18.3-1ubuntu1 all Data files for the
GNOME terminal emulator
ii gnome-user-guide 3.18.1-1 all GNOME user's guide
ii gnome-user-share 3.14.2-2ubuntu4 amd64 User level public file
sharing via WebDAV or ObexFTP
ii gnome-video-effects 0.4.1-3ubuntu1 all Collection of
GStreamer effects
ii gnupg
1.4.20-1ubuntu3.1 amd64 GNU privacy guard - a free PGP
replacement
ii gnupg-agent 2.1.11-6ubuntu2 amd64 GNU privacy guard -
cryptographic agent
ii gnupg2 2.1.11-6ubuntu2 amd64 GNU privacy guard - a
free PGP replacement (new v2.x)
ii google-chrome-stable 56.0.2924.76-1 amd64 The web browser
from Google
ii google-talkplugin 5.41.3.0-1 amd64 Google Talk Plugin

ii gpgv 1.4.20-1ubuntu3.1 amd64 GNU privacy guard - signature verification tool
ii graphviz 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools
ii grep 2.25-1~16.04.1 amd64 GNU grep, egrep and fgrep
ii grilo-plugins-0.2-base:amd64 0.2.17-0ubuntu2 amd64 Framework for discovering and browsing media - Base Plugins
ii groff-base 1.22.3-7 amd64 GNU troff text-formatting system (base system components)
ii grub-common 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader (common files)
ii grub-efi-amd64 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 version)
ii grub-efi-amd64-bin 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 binaries)
ii grub-efi-amd64-signed 1.66.7+2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 version, signed)
ii grub2-common 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader (common files for version 2)
ii gsettings-desktop-schemas 3.18.1-1ubuntu1 all GSettings desktop-wide schemas
ii gsettings-ubuntu-schemas 0.0.5+16.04.20160307-0ubuntu1 all GSettings deskop-wide schemas for Ubuntu
ii gsfonts 1:8.11+urwcyr1.0.7~pre44-4.2ubuntu1 all Fonts for the Ghostscript interpreter(s)
ii gsfonts-x11 0.24 all Make Ghostscript fonts available to X11
ii gstreamer1.0-alsa:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugin for ALSA
ii gstreamer1.0-clutter-3.0 3.0.18-1 amd64 Clutter PLugin for GStreamer 1.0
ii gstreamer1.0-fluendo-mp3:amd64 0.10.32.debian-1 amd64 Fluendo mp3 decoder GStreamer 1.0 plugin
ii gstreamer1.0-libav:amd64 1.8.2-1~ubuntu1 amd64 libav plugin for GStreamer
ii gstreamer1.0-plugins-bad:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins from the "bad" set
ii gstreamer1.0-plugins-bad-faad:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer faad plugin from the "bad" set
ii gstreamer1.0-plugins-bad-videoparsers:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer videoparsers plugin from the "bad" set
ii gstreamer1.0-plugins-base:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins from the "base" set
ii gstreamer1.0-plugins-base:i386 1.8.2-1ubuntu0.2 i386 GStreamer plugins from the "base" set
ii gstreamer1.0-plugins-base-apps 1.8.2-1ubuntu0.2 amd64 GStreamer helper programs from the "base" set

ii gstreamer1.0-plugins-good:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer plugins from the "good" set
ii gstreamer1.0-plugins-good:i386 1.8.2-1ubuntu0.3 i386 GStreamer plugins from the "good" set
ii gstreamer1.0-plugins-ugly:amd64 1.8.2-1ubuntu0.1 amd64 GStreamer plugins from the "ugly" set
ii gstreamer1.0-plugins-ugly-amr:amd64 1.8.2-1ubuntu0.1 amd64 GStreamer plugins from the "ugly" set
ii gstreamer1.0-pulseaudio:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer plugin for PulseAudio
ii gstreamer1.0-tools 1.8.2-1~ubuntu1 amd64 Tools for use with GStreamer
ii gstreamer1.0-x:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins for X11 and Pango
ii gstreamer1.0-x:i386 1.8.2-1ubuntu0.2 i386 GStreamer plugins for X11 and Pango
ii gtk2-engines-murrine:amd64 0.98.2-0ubuntu2.2 amd64 cairo-based gtk+-2.0 theme engine
ii gucharmap 1:3.18.2-1ubuntu1 amd64 Unicode character picker and font browser
ii guile-2.0-libs:amd64 2.0.11+1-10 amd64 Core Guile libraries
ii gvfs:amd64 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - GIO module
ii gvfs-backends 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - backends
ii gvfs-bin 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - binaries
ii gvfs-common 1.28.2-1ubuntu1~16.04.1 all userspace virtual filesystem - common data files
ii gvfs-daemons 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - servers
ii gvfs-fuse 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - fuse server
ii gvfs-libs:amd64 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - private libraries
ii gyp 0.1+20150913git1f374df9-1ubuntu1 all Cross-platform build script generator
ii gzip 1.6-4ubuntu1 amd64 GNU compression utilities
ii hardening-includes 2.7ubuntu2 all Makefile for enabling compiler flags for security hardening
ii hdparm 9.48+ds-1 amd64 tune hard disk parameters for high performance
ii heroku 3.43.16 all Client library and CLI to deploy apps on Heroku.
ii heroku-toolbelt 3.43.16 all A metapackage for working with the Heroku platform.

ii hicolor-icon-theme 0.15-0ubuntu1 all default fallback theme for FreeDesktop.org icon themes
ii hostname 3.16ubuntu2 amd64 utility to set/show the host name or domain name
ii hplip 3.16.3+repack0-1 amd64 HP Linux Printing and Imaging System (HPLIP)
ii hplip-data 3.16.3+repack0-1 all HP Linux Printing and Imaging - data files
ii hud 14.10+16.04.20160415-0ubuntu1 amd64 Backend for the Unity HUD
ii humanity-icon-theme 0.6.10 all Humanity Icon theme
ii hunspell-en-au 1:5.1.0-1ubuntu2.2 all English (Australia) dictionary for hunspell
ii hunspell-en-ca 1:5.1.0-1ubuntu2.2 all English (Canada) dictionary for hunspell
ii hunspell-en-gb 1:5.1.0-1ubuntu2.2 all English (GB) dictionary for hunspell
ii hunspell-en-us 20070829-6ubuntu3 all English_american dictionary for hunspell
ii hunspell-en-za 1:5.1.0-1ubuntu2.2 all English (South Africa) dictionary for hunspell
ii hunspell-it 1:5.1.0-1ubuntu2.2 all Italian dictionary for hunspell
ii hwdata 0.267-1 all hardware identification / configuration data
ii hyphen-en-gb 1:5.1.0-1ubuntu2.2 all English (GB) hyphenation patterns
ii hyphen-en-us 2.8.8-2ubuntu1 all US English hyphenation patterns for LibreOffice/OpenOffice.org
ii hyphen-it 1:5.1.0-1ubuntu2.2 all Italian hyphenation patterns
ii i965-va-driver:amd64 1.7.0-1 amd64 VAAPI driver for Intel G45 & HD Graphics family
ii ibus 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - core
ii ibus-gtk:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - GTK+2 support
ii ibus-gtk3:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - GTK+3 support
ii ibus-table 1.9.1-3ubuntu2 all table engine for IBus
ii icedtea-netx-common 1.6.2-3ubuntu1 all NetX - implementation of the Java Network Launching Protocol (JNLP)
ii icu-devtools 55.1-7 amd64 Development utilities for International Components for Unicode
ii ifupdown 0.8.10ubuntu1.2 amd64 high level tools to configure network interfaces
ii im-config 0.29-1ubuntu12.3 all Input method

configuration framework
ii imagemagick 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation programs -- binaries
ii imagemagick-6.q16 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation programs -- quantum depth Q16
ii imagemagick-common 8:6.8.9.9-7ubuntu5.3 all image manipulation programs -- infrastructure
ii indicator-application 12.10.1+15.04.20150128-0ubuntu1 amd64 Application Indicators
ii indicator-appmenu 15.02.0+16.04.20151104-0ubuntu1 amd64 Indicator for application menus.
ii indicator-bluetooth 0.0.6+16.04.20160526-0ubuntu1 amd64 System bluetooth indicator.
ii indicator-datetime 15.10+16.04.20160406-0ubuntu1 amd64 Simple clock
ii indicator-keyboard 0.0.0+16.04.20151125-0ubuntu1 amd64 Keyboard indicator
ii indicator-messages 13.10.1+15.10.20150505-0ubuntu1 amd64 indicator that collects messages that need a response
ii indicator-power 12.10.6+16.04.20160105-0ubuntu1 amd64 Indicator showing power state.
ii indicator-printers 0.1.7+15.04.20150220-0ubuntu2 amd64 indicator showing active print jobs
ii indicator-session 12.10.5+16.04.20160412-0ubuntu1 amd64 indicator showing session management, status and user switching
ii indicator-sound 12.10.2+16.04.20160406-0ubuntu1 amd64 System sound indicator.
ii info 6.1.0.dfsg.1-5 amd64 Standalone GNU Info documentation browser
ii init 1.29ubuntu3 amd64 System-V-like init utilities - metapackage
ii init-system-helpers 1.29ubuntu3 all helper tools for all init systems
ii initramfs-tools 0.122ubuntu8.8 all generic modular initramfs generator (automation)
ii initramfs-tools-bin 0.122ubuntu8.8 amd64 binaries used by initramfs-tools
ii initramfs-tools-core 0.122ubuntu8.8 all generic modular initramfs generator (core tools)
ii initscripts 2.88dsf-59.3ubuntu2 amd64 scripts for initializing and shutting down the system
ii inputattach 1:1.4.9-1 amd64 utility to connect serial-attached peripherals to the input subsystem
ii insserv 1.14.0-5ubuntu3 amd64 boot sequence organizer using LSB init.d script dependency information
ii install-info 6.1.0.dfsg.1-5 amd64 Manage installed documentation in info format

ii intel-gpu-tools 1.14-1 amd64 tools for debugging the Intel graphics driver
ii intel-microcode 3.20151106.1 amd64 Processor microcode firmware for Intel CPUs
ii intltool-debian 0.35.0+20060710.4 all Help i18n of RFC822 compliant config files
ii ippusbxd 1.23-1 amd64 Daemon for IPP USB printer support
ii iproute2 4.3.0-1ubuntu3 amd64 networking and traffic control tools
ii iptables 1.6.0-2ubuntu3 amd64 administration tools for packet filtering and NAT
ii iputils-arping 3:20121221-5ubuntu2 amd64 Tool to send ICMP echo requests to an ARP address
ii iputils-ping 3:20121221-5ubuntu2 amd64 Tools to test the reachability of network hosts
ii iputils-tracepath 3:20121221-5ubuntu2 amd64 Tools to trace the network path to a remote host
ii irqbalance 1.1.0-2ubuntu1 amd64 Daemon to balance interrupts for SMP systems
ii isc-dhcp-client 4.3.3-5ubuntu12.6 amd64 DHCP client for automatically obtaining an IP address
ii isc-dhcp-common 4.3.3-5ubuntu12.6 amd64 common files used by all of the isc-dhcp packages
ii iso-codes 3.65-1 all ISO language, territory, currency, script codes and their translations
ii iucode-tool 1.5.1-1ubuntu0.1 amd64 Intel processor microcode tool
ii iw 3.17-1 amd64 tool for configuring Linux wireless devices
ii java-common 0.56ubuntu2 all Base package for Java runtimes
ii javahelp2 2.0.05.ds1-8 all Java based help system
ii javascript-common 11 all Base support for JavaScript library packages
ii jayatana 2.7-0ubuntu5 amd64 Java Native Library for ayatana project
ii jblas 1.2.3-6 amd64 fast linear algebra library for Java
ii junit 3.8.2-8build1 all Automated testing framework for Java
ii junit4 4.12-4ubuntu1 all JUnit regression test framework for Java
ii kbd 1.15.5-1ubuntu5 amd64 Linux console font and keytable utilities
ii kerneloops-daemon 0.12+git20140509-2ubuntu1 amd64 kernel oops tracker
ii keyboard-configuration 1.108ubuntu15.2 all system-wide

keyboard preferences
ii keyutils 1.5.9-8ubuntu1 amd64 Linux Key Management Utilities
ii klibc-utils 2.0.4-8ubuntu1.16.04.2 amd64 small utilities built with klibc for early
boot
ii kmod 22-1ubuntu4 amd64 tools for managing Linux kernel modules
ii krb5-locales 1.13.2+dfsg-5ubuntu1 all Internationalization support for MIT Kerberos
ii language-pack-en 1:16.04+20161009 all translation updates for language English
ii language-pack-en-base 1:16.04+20160627 all translations for language English
ii language-pack-gnome-en 1:16.04+20161009 all GNOME translation updates for language English
ii language-pack-gnome-en-base 1:16.04+20160627 all GNOME translations for language English
ii language-pack-gnome-it
1:16.04+20161009 all GNOME translation updates for language Italian
ii language-pack-gnome-it-base 1:16.04+20160627 all GNOME translations for language Italian
ii language-pack-it 1:16.04+20161009 all translation updates for language Italian
ii language-pack-it-base 1:16.04+20160627 all translations for language Italian
ii language-selector-common 0.165.4 all Language selector for Ubuntu
ii language-selector-gnome 0.165.4 all Language selector for Ubuntu
ii laptop-detect
0.13.7ubuntu2 amd64 attempt to detect a laptop
ii less 481-2.1ubuntu0.1 amd64 pager program similar to more
ii lib32z1 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - 32 bit runtime
ii liba11y-profile-manager-0.1-0:amd64 0.1.10-0ubuntu3 amd64 Accessibility profile manager - Shared library
ii liba11y-profile-manager-data 0.1.10-0ubuntu3 all Accessibility Profile Manager - GSettings data
ii liba52-0.7.4:amd64 0.7.4-18 amd64 library for decoding ATSC A/52 streams
ii libaa1:amd64 1.4p5-44build1
amd64 ASCII art library
ii libaa1:i386 1.4p5-44build1 i386 ASCII art library
ii libaacs0:amd64 0.8.1-1 amd64 free-and-libre implementation of AACS

ii libabw-0.1-1v5:amd64 0.1.1-2ubuntu2 amd64 library for reading and writing AbiWord(tm) documents
ii libaccount-plugin-1.0-0:amd64 0.1.8+16.04.20160201-0ubuntu1 amd64 libaccount-plugin for Unity Control Center
ii libaccount-plugin-generic-oauth 0.12+16.04.20160126-0ubuntu1 amd64 GNOME Control Center account plugin for single signon - generic OAuth
ii libaccount-plugin-google 0.12+16.04.20160126-0ubuntu1 amd64 GNOME Control Center account plugin for single signon - Google Auth
ii libaccounts-glib0:amd64 1.21+16.04.20160222-0ubuntu1 amd64 library for single signon
ii libaccounts-qt5-1:amd64 1.14+16.04.20151106.1-0ubuntu1 amd64 QT library for single sign on
ii libaccountsservice0:amd64 0.6.40-2ubuntu11.3 amd64 query and manipulate user account information - shared libraries
ii libacl1:amd64 2.2.52-3 amd64 Access control list shared library
ii libalgorithm-diff-perl 1.19.03-1 all module to find differences between files
ii libalgorithm-diff-xs-perl 0.04-4build1 amd64 module to find differences between files (XS accelerated)
ii libalgorithm-merge-perl 0.08-3 all Perl module for three-way merge of textual data
ii libandroid-properties1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to get, set and list Android properties
ii libao-common 1.1.0-3ubuntu1 all Cross Platform Audio Output Library (Common files)
ii libao4:amd64 1.1.0-3ubuntu1 amd64 Cross Platform Audio Output Library
ii libaopalliance-java 20070526-5 all library for interoperability for Java AOP implementations
ii libapache-pom-java 10-2build1 all Maven metadata for all Apache Software projects
ii libapparmor-perl 2.10.95-0ubuntu2.5 amd64 AppArmor library Perl bindings
ii libapparmor1:amd64 2.10.95-0ubuntu2.5 amd64 changehat AppArmor library
ii libappindicator1 12.10.1+15.04.20141110-0ubuntu1 amd64 Application Indicators
ii libappindicator3-1 12.10.1+15.04.20141110-0ubuntu1 amd64 Application Indicators
ii libappstream-glib8:amd64 0.5.13-1ubuntu4 amd64 GNOME library to access AppStream services
ii libappstream3:amd64 0.9.4-1ubuntu2 amd64 Library to access AppStream services
ii libapt-inst2.0:amd64 1.2.18 amd64 deb package format runtime library
ii libapt-pkg-perl 0.1.29build7 amd64 Perl interface to libapt-pkg

ii libapt-pkg5.0:amd64 1.2.18 amd64 package management runtime library
ii libarchive-zip-perl 1.56-2 all Perl module for manipulation of ZIP archives
ii libarchive13:amd64 3.1.2-11ubuntu0.16.04.2 amd64 Multi-format archive and compression library (shared library)
ii libart-2.0-2:amd64 2.3.21-2 amd64 Library of functions for 2D graphics - runtime files
ii libasan1:amd64 4.9.3-13ubuntu2 amd64 AddressSanitizer -- a fast memory error detector
ii libasan2:amd64 5.4.0-6ubuntu1~16.04.4 amd64 AddressSanitizer -- a fast memory error detector
ii libasm4-java 5.0.4-1 all Java bytecode manipulation framework
ii libasn1-8-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - ASN.1 library
ii libasound2:amd64 1.1.0-0ubuntu1 amd64 shared library for ALSA applications
ii libasound2:i386 1.1.0-0ubuntu1 i386 shared library for ALSA applications
ii libasound2-data 1.1.0-0ubuntu1 all Configuration files and profiles for ALSA drivers
ii libasound2-plugins:amd64 1.1.0-0ubuntu1 amd64 ALSA library additional plugins
ii libasound2-plugins:i386 1.1.0-0ubuntu1 i386 ALSA library additional plugins
ii libaspell15:amd64 0.60.7~20110707-3build1 amd64 GNU Aspell spell-checker runtime library
ii libaspell15:i386 0.60.7~20110707-3build1 i386 GNU Aspell spell-checker runtime library
ii libasprintf-dev:amd64 0.19.7-2ubuntu3 amd64 GNU Internationalization library development files
ii libasprintf0v5:amd64 0.19.7-2ubuntu3 amd64 GNU library to use fprintf and friends in C++
ii libass5:amd64 0.13.1-1 amd64 library for SSA/ASS subtitles rendering
ii libassuan0:amd64 2.4.2-2 amd64 IPC library for the GnuPG components
ii libasyncns0:amd64 0.8-5build1 amd64 Asynchronous name service query library
ii libasyncns0:i386 0.8-5build1 i386 Asynchronous name service query library
ii libatasmart4:amd64 0.19-3 amd64 ATA S.M.A.R.T. reading and parsing library
ii libatinject-jsr330-api-java 1.0+ds1-2 all Java API for JSR-330 Dependency Injection
ii libatk-adaptor:amd64 2.18.1-2ubuntu1 amd64 AT-SPI 2 toolkit

bridge
ii libatk-bridge2.0-0:amd64 2.18.1-2ubuntu1 amd64 AT-SPI 2 toolkit bridge - shared library
ii libatk1.0-0:amd64 2.18.0-1 amd64 ATK accessibility toolkit
ii libatk1.0-0:i386 2.18.0-1 i386 ATK accessibility toolkit
ii libatk1.0-data 2.18.0-1 all Common files for the ATK accessibility toolkit
ii libatk1.0-dev 2.18.0-1 amd64 Development files for the ATK accessibility toolkit
ii libatkmm-1.6-1v5:amd64 2.24.2-1 amd64 C++ wrappers for ATK accessibility toolkit (shared libraries)
ii libatlas-base-dev 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, generic static
ii libatlas-dev 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, C header files
ii libatlas3-base 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, generic shared
ii libatm1:amd64 1:2.5.1-1.5 amd64 shared library for ATM (Asynchronous Transfer Mode)
ii libatomic1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 support library providing __atomic built-in functions
ii libatspi2.0-0:amd64 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider Interface - shared library
ii libattr1:amd64 1:2.4.47-2 amd64 Extended attribute shared library
ii libaudio2:amd64 1.9.4-4 amd64 Network Audio System - shared libraries
ii libaudio2:i386 1.9.4-4 i386 Network Audio System - shared libraries
ii libaudit-common 1:2.4.5-1ubuntu2 all Dynamic library for security auditing - common files
ii libaudit1:amd64 1:2.4.5-1ubuntu2 amd64 Dynamic library for security auditing
ii libauthen-sasl-perl 2.1600-1 all Authen::SASL - SASL Authentication framework
ii libavahi-client3:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi client library
ii libavahi-client3:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi client library
ii libavahi-common-data:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi common data files
ii libavahi-common-data:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi common data files
ii libavahi-common3:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi common library
ii libavahi-common3:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi common

library
ii libavahi-core7:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi's embeddable mDNS/DNS-SD library
ii libavahi-glib1:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi GLib integration library
ii libavahi-ui-gtk3-0:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi GTK+ User interface library for GTK3
ii libavc1394-0:amd64 0.5.4-4 amd64 control IEEE 1394 audio/video devices
ii libavc1394-0:i386 0.5.4-4 i386 control IEEE 1394 audio/video devices
ii libavcodec-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with de/encoders for audio/video codecs - development files
ii libavcodec-ffmpeg56:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with de/encoders for audio/video codecs - runtime files
ii libavfilter-ffmpeg5:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library containing media filters - runtime files
ii libavformat-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with (de)muxers for multimedia containers - development files
ii libavformat-ffmpeg56:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with (de)muxers for multimedia containers - runtime files
ii libavresample-ffmpeg2:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg compatibility library for resampling - runtime files
ii libavutil-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with functions for simplifying programming - development files
ii libavutil-ffmpeg54:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with functions for simplifying programming - runtime files
ii libbabeltrace-ctf1:amd64 1.3.2-1 amd64 Common Trace Format (CTF) library
ii libbabeltrace1:amd64 1.3.2-1 amd64 Babeltrace conversion libraries
ii libbamf3-2:amd64 0.5.3~bzr0+16.04.20160824-0ubuntu1 amd64 Window matching library - shared library
ii libbdplus0:amd64 0.1.2-1 amd64 implementation of BD+ for reading Blu-ray Discs
ii libbind9-140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 BIND9 Shared Library used by BIND
ii libbison-dev:amd64 2:3.0.4.dfsg-1 amd64 YACC-compatible parser generator - development library
ii libblas-common 3.6.0-2ubuntu2 amd64 Dependency package for all BLAS implementations
ii libblas-dev 3.6.0-2ubuntu2 amd64 Basic Linear Algebra Subroutines 3, static library
ii libblas3 3.6.0-2ubuntu2 amd64 Basic Linear Algebra Reference implementations, shared library
ii libblkid1:amd64 2.27.1-6ubuntu3.2 amd64 block device ID library

ii libbluetooth3:amd64 5.37-0ubuntu5 amd64 Library to use the BlueZ Linux Bluetooth stack
ii libbluray1:amd64 1:0.9.2-2 amd64 Blu-ray disc playback support library (shared library)
ii libboost-date-time1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 set of date-time libraries based on generic programming concepts
ii libboost-filesystem1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 filesystem operations (portable paths, iteration over directories, etc) in C++
ii libboost-iostreams1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 Boost.Iostreams Library
ii libboost-system1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 Operating system (e.g. diagnostics support) library
ii libbrlapi0.6:amd64 5.3.1-2ubuntu2.1 amd64 braille display access via BRLTTY - shared library
ii libbs2b0:amd64 3.1.0+dfsg-2.2 amd64 Bauer stereophonic-to-binaural DSP library
ii libbsd0:amd64 0.8.2-1 amd64 utility functions from BSD systems - shared library
ii libbsd0:i386 0.8.2-1 i386 utility functions from BSD systems - shared library
ii libbsh-java 2.0b4-17ubuntu1 all Java scripting environment (BeanShell) Version 2 (library)
ii libbz2-1.0:amd64 1.0.6-8 amd64 high-quality block-sorting file compressor library - runtime
ii libbz2-1.0:i386 1.0.6-8 i386 high-quality block-sorting file compressor library - runtime
ii libc-bin 2.23-0ubuntu5 amd64 GNU C Library: Binaries
ii libc-dev-bin 2.23-0ubuntu5 amd64 GNU C Library: Development binaries
ii libc6:amd64 2.23-0ubuntu5 amd64 GNU C Library: Shared libraries
ii libc6:i386 2.23-0ubuntu5 i386 GNU C Library: Shared libraries
ii libc6-dbg:amd64 2.23-0ubuntu5 amd64 GNU C Library: detached debugging symbols
ii libc6-dev:amd64 2.23-0ubuntu5 amd64 GNU C Library: Development Libraries and Header Files
ii libc6-i386 2.23-0ubuntu5 amd64 GNU C Library: 32-bit shared libraries for AMD64
ii libcaca0:amd64 0.99.beta19-2build2~gcc5.2 amd64 colour ASCII art library
ii libcaca0:i386 0.99.beta19-2build2~gcc5.2 i386 colour ASCII art library
ii libcairo-gobject2:amd64 1.14.6-1 amd64 Cairo 2D vector graphics library (GObject library)
ii libcairo-gobject2:i386 1.14.6-1 i386 Cairo 2D vector graphics

library (GObject library)
ii libcairo-script-interpreter2:amd64 1.14.6-1 amd64 Cairo 2D vector graphics library (script interpreter)
ii libcairo2:amd64 1.14.6-1 amd64 Cairo 2D vector graphics library
ii libcairo2:i386 1.14.6-1 i386 Cairo 2D vector graphics library
ii libcairo2-dev 1.14.6-1 amd64 Development files for the Cairo 2D graphics library
ii libcairomm-1.0-1v5:amd64 1.12.0-1 amd64 C++ wrappers for Cairo (shared libraries)
ii libcamel-1.2-54:amd64 3.18.5-1ubuntu1 amd64 Evolution MIME message handling library
ii libcanberra-gtk-module:amd64 0.30-2.1ubuntu1 amd64 translates GTK+ widgets signals to event sounds
ii libcanberra-gtk0:amd64 0.30-2.1ubuntu1 amd64 GTK+ helper for playing widget event sounds with libcanberra
ii libcanberra-gtk3-0:amd64 0.30-2.1ubuntu1 amd64 GTK+ 3.0 helper for playing widget event sounds with libcanberra
ii libcanberra-gtk3-module:amd64 0.30-2.1ubuntu1 amd64 translates GTK3
widgets signals to event sounds
ii libcanberra-pulse:amd64 0.30-2.1ubuntu1 amd64 PulseAudio backend for libcanberra
ii libcanberra0:amd64 0.30-2.1ubuntu1 amd64 simple abstract interface for playing event sounds
ii libcap-ng0:amd64 0.7.7-1 amd64 An alternate POSIX capabilities library
ii libcap2:amd64 1:2.24-12 amd64 POSIX 1003.1e capabilities (library)
ii libcap2:i386 1:2.24-12 i386 POSIX 1003.1e capabilities (library)
ii libcap2-bin 1:2.24-12 amd64 POSIX 1003.1e capabilities (utilities)
ii
libcc1-0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC cc1 plugin for GDB
ii libcdi-api-java 1.0-2 all Contexts and Dependency Injection for Java EE
ii libcdio-cdda1:amd64 0.83-4.2ubuntu1 amd64 library to read and control digital audio CDs
ii libcdio-paranoia1:amd64 0.83-4.2ubuntu1 amd64 library to read digital audio CDs with error correction
ii libcdio13:amd64 0.83-4.2ubuntu1 amd64 library to read and control CD-ROM
ii libcdparanoia0:amd64 3.10.2+debian-11 amd64 audio extraction tool for sampling CDs (library)
ii

libcdparanoia0:i386 3.10.2+debian-11 i386 audio extraction tool for sampling CDs (library)
ii libcdr-0.1-1:amd64 0.1.2-2ubuntu2 amd64 library for reading and converting Corel DRAW files
ii libcdt5 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - cdt library
ii libcgi-fast-perl 1:2.10-1 all CGI subclass for work with FCGI
ii libcgi-pm-perl 4.26-1 all module for Common Gateway Interface applications
ii libcglib3-java 3.1+dfsg-1 all code generation library for Java
ii
libcgmanager0:amd64 0.39-2ubuntu5 amd64 Central cgroup manager daemon (client library)
ii libcgraph6 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - cgraph library
ii libcheese-gtk25:amd64 3.18.1-2ubuntu3 amd64 tool to take pictures and videos from your webcam - widgets
ii libcheese8:amd64 3.18.1-2ubuntu3 amd64 tool to take pictures and videos from your webcam - base library
ii libchromaprint0:amd64 1.3-1 amd64 audio fingerprint library
ii libcilkrts5:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Intel Cilk Plus language extensions (runtime)
ii libclang-common-3.8-dev 1:3.8-2ubuntu4 amd64 clang library - Common development package
ii libclang1-3.8:amd64 1:3.8-2ubuntu4 amd64 C interface to the clang library
ii libclass-accessor-perl 0.34-1 all Perl module that automatically generates accessors
ii libclassworlds-java 1.1-final-5 all framework for container developers requiring manipulation of ClassLoaders
ii libclone-perl 0.38-1build1 amd64 module for recursively copying Perl datatypes
ii libclucene-contribs1v5:amd64 2.3.3.4-4.1
amd64 language specific text analyzers (runtime)
ii libclucene-core1v5:amd64 2.3.3.4-4.1 amd64 core library for full-featured text search engine (runtime)
ii libclutter-1.0-0:amd64 1.24.2-1 amd64 Open GL based interactive canvas library
ii libclutter-1.0-common 1.24.2-1 all Open GL based interactive canvas library (common files)
ii libclutter-gst-3.0-0:amd64 3.0.18-1 amd64 Open GL based interactive canvas library GStreamer elements
ii libclutter-gtk-1.0-0:amd64 1.6.6-1 amd64 Open GL based interactive canvas library GTK+ widget
ii libcmis-0.5-5v5:amd64

0.5.1-2ubuntu2 amd64 CMIS protocol client library
ii libcogl-common 1.22.0-2 all Object oriented GL/GLES Abstraction/Utility Layer (common files)
ii libcogl-pango20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcogl-path20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcogl20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcolamd2.9.1:amd64 1:4.4.6-1 amd64 column approximate minimum degree ordering library for sparse matrices
ii
libcolord2:amd64 1.2.12-1ubuntu1 amd64 system service to manage device colour profiles -- runtime
ii libcolorhug2:amd64 1.2.12-1ubuntu1 amd64 library to access the ColorHug colourimeter -- runtime
ii libcolumbus1-common 1.1.0+15.10.20150806-0ubuntu4 all error tolerant matching engine - common files
ii libcolumbus1v5:amd64 1.1.0+15.10.20150806-0ubuntu4 amd64 error tolerant matching engine - shared library
ii libcomerr2:amd64 1.42.13-1ubuntu1 amd64 common error description library
ii libcomerr2:i386 1.42.13-1ubuntu1 i386 common error description
library
ii libcommons-cli-java 1.3.1-3ubuntu1 all Command line arguments and options parsing library
ii libcommons-codec-java 1.10-1 all encoder and decoders such as Base64 and hexadecimal codec
ii libcommons-collections3-java 3.2.2-1 all Apache Commons Collections - Extended Collections API for Java
ii libcommons-httpclient-java 3.1-12 all Commons HTTPClient - Java library for creating HTTP clients
ii libcommons-io-java 2.4-2 all Common useful IO related classes
ii libcommons-lang-java 2.6-6ubuntu2
all Commons Lang - an extension of the java.lang package
ii libcommons-lang3-java 3.4-1 all Extension of the java.lang package (for Java 5+)
ii libcommons-logging-java 1.2-1+build1 all common wrapper interface for several logging APIs
ii libcommons-math-java 2.2-5 all Java lightweight mathematics and statistics components
ii libcommons-net-java 3.4-2ubuntu2 all Apache Commons Net - Java client API for basic Internet protocols
ii libcommons-net2-java 2.2-2 all internet protocol suite Java library
ii libcommons-parent-java

39-3 all Maven metadata for Apache Commons project
ii libcompizconfig0:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 Settings library for plugins - OpenCompositing Project
ii libcrack2:amd64 2.9.2-1build2 amd64 pro-active password checker library
ii libcroco3:amd64 0.6.11-1 amd64 Cascading Style Sheet (CSS) parsing and manipulation toolkit
ii libcryptsetup4:amd64 2:1.6.6-5ubuntu2 amd64 disk encryption support - shared library
ii libcrystalhd3:amd64 1:0.0~git20110715.fdd2f19-11build1 amd64 Crystal HD Video Decoder (shared library)
ii libcups2:amd64
2.1.3-4 amd64 Common UNIX Printing System(tm) - Core library
ii libcups2:i386 2.1.3-4 i386 Common UNIX Printing System(tm) - Core library
ii libcups2-dev:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - Development files CUPS library
ii libcupscgi1:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - CGI library
ii libcupsfilters1:amd64 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Shared library
ii libcupsimage2:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - Raster image library
ii libcupsmime1:amd64
2.1.3-4 amd64 Common UNIX Printing System(tm) - MIME library
ii libcupsppdc1:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD manipulation library
ii libcurl3:amd64 7.47.0-1ubuntu2.2 amd64 easy-to-use client-side URL transfer library (OpenSSL flavour)
ii libcurl3-gnutls:amd64 7.47.0-1ubuntu2.2 amd64 easy-to-use client-side URL transfer library (GnuTLS flavour)
ii libcv-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libcv-dev
ii libcvaux-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libcvaux-dev
ii libdaemon0:amd64 0.14-6 amd64 lightweight C library for daemons - runtime library
ii libdata-alias-perl 1.20-1build1 amd64 module to create aliases instead of copies
ii libdatrie1:amd64 0.2.10-2 amd64 Double-array trie library
ii libdatrie1:i386 0.2.10-2 i386 Double-array trie library
ii libdb5.3:amd64 5.3.28-11 amd64 Berkeley v5.3 Database Libraries [runtime]
ii libdbus-1-3:amd64 1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system
(library)
ii libdbus-1-3:i386 1.10.6-1ubuntu3.3 i386 simple interprocess

messaging system (library)
ii libdbus-glib-1-2:amd64 0.106-1 amd64 simple interprocess messaging system (GLib-based shared library)
ii libdbus-glib-1-2:i386 0.106-1 i386 simple interprocess messaging system (GLib-based shared library)
ii libdbusmenu-glib4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus
ii libdbusmenu-gtk3-4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus - GTK+ version
ii libdbusmenu-gtk4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus - GTK+ version
ii libdbusmenu-qt2:amd64 0.9.3+16.04.20160218-0ubuntu1 amd64 Qt implementation of the DBusMenu protocol
ii libdbusmenu-qt2:i386 0.9.3+16.04.20160218-0ubuntu1 i386 Qt implementation of the DBusMenu protocol
ii libdbusmenu-qt5:amd64 0.9.3+16.04.20160218-0ubuntu1 amd64 Qt5 implementation of the DBusMenu protocol
ii libdc1394-22:amd64 2.2.4-1 amd64 high level programming interface for IEEE 1394 digital cameras
ii libdc1394-22-dev:amd64 2.2.4-1 amd64 high level programming interface for IEEE 1394 digital cameras - development
ii libdca0:amd64 0.0.5-7build1 amd64 decoding library for DTS Coherent Acoustics streams
ii libdconf1:amd64 0.24.0-2 amd64 simple configuration storage system - runtime library
ii libdconf1:i386 0.24.0-2 i386 simple configuration storage system - runtime library
ii libde265-0:amd64 1.0.2-2 amd64 Open H.265 video codec implementation
ii libdebconfclient0:amd64 0.198ubuntu1 amd64 Debian Configuration Management System (C-implementation library)
ii libdecoration0:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 Compiz window decoration library
ii libdee-1.0-4:amd64 1.2.7+15.04.20150304-0ubuntu2 amd64 model to synchronize multiple instances over DBus - shared lib
ii libdevmapper1.02.1:amd64 2:1.02.110-1ubuntu10 amd64 Linux Kernel Device Mapper userspace library
ii libdfu1:amd64 0.7.0-0ubuntu4.3 amd64 Firmware update daemon library for DFU support
ii libdigest-hmac-perl 1.03+dfsg-1 all module for creating standard message integrity checks
ii libdjvulibre-text 3.5.27.1-5 all Linguistic support files for libdjvulibre
ii libdjvulibre21:amd64 3.5.27.1-5 amd64 Runtime support for the DjVu
image format
ii libdmapsharing-3.0-2:amd64 2.9.34-1 amd64 DMAP client and

server library - runtime
ii libdns-export162 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Exported DNS Shared Library
ii libdns162:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 DNS Shared Library used by BIND
ii libdom4j-java 1.6.1+dfsg.3-2ubuntu1 all flexible XML framework for Java
ii libdotconf0:amd64 1.3-0.2 amd64 Configuration file parser library - runtime files
ii libdouble-conversion1v5:amd64 2.0.1-3ubuntu2 amd64 routines to convert IEEE floats to and from strings
ii libdoxia-core-java 1.1.4-3ubuntu1 all Doxia content generation framework (core)
ii libdpkg-perl 1.18.4ubuntu1.1 all Dpkg perl modules
ii libdrm-amdgpu1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to amdgpu-specific kernel DRM services -- runtime
ii libdrm-amdgpu1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to amdgpu-specific kernel DRM services -- runtime
ii libdrm-dev:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to kernel DRM services -- development files
ii libdrm-intel1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface
to intel-specific kernel DRM services -- runtime
ii libdrm-intel1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to intel-specific kernel DRM services -- runtime
ii libdrm-nouveau2:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to nouveau-specific kernel DRM services -- runtime
ii libdrm-nouveau2:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to nouveau-specific kernel DRM services -- runtime
ii libdrm-radeon1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to radeon-specific kernel DRM services -- runtime
ii libdrm-radeon1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to radeon-specific kernel
DRM services -- runtime
ii libdrm2:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to kernel DRM services -- runtime
ii libdrm2:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to kernel DRM services -- runtime
ii libdv4:amd64 1.0.0-7 amd64 software library for DV format digital video (runtime lib)
ii libdv4:i386 1.0.0-7 i386 software library for DV format digital video (runtime lib)
ii libdvdnav4:amd64 5.0.3-1 amd64 DVD navigation library
ii libdvdread4:amd64 5.0.3-1 amd64
library for reading DVDs
ii libdw1:amd64 0.165-3ubuntu1 amd64 library that provides access to the DWARF debug information
ii libe-book-0.1-1:amd64 0.1.2-2ubuntu1 amd64 library for reading

and converting various e-book formats
ii libeasymock-java 3.3.1+ds-3 all Java library to generate Mock Objects for given interfaces
ii libebackend-1.2-10:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libebook-1.2-16:amd64 3.18.5-1ubuntu1 amd64 Client library for evolution address books
ii libebook-contacts-1.2-2:amd64 3.18.5-1ubuntu1 amd64 Client library for evolution contacts books
ii libecal-1.2-19:amd64 3.18.5-1ubuntu1 amd64 Client library for evolution calendars
ii libeclipse-aether-java 1.0.2-1 all Library to handle Java artifact repositories
ii libecryptfs1 111-0ubuntu1.1 amd64 ecryptfs cryptographic filesystem (library)
ii libedata-book-1.2-25:amd64 3.18.5-1ubuntu1 amd64 Backend library for evolution address books
ii libedata-cal-1.2-28:amd64 3.18.5-1ubuntu1 amd64 Backend library for evolution calendars
ii libedataserver-1.2-21:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libedataserverui-1.2-1:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libedit2:amd64 3.1-20150325-1ubuntu2 amd64 BSD editline and history libraries
ii libedit2:i386 3.1-20150325-1ubuntu2 i386 BSD editline and history libraries
ii libefivar0:amd64 0.23-2 amd64 Library to manage UEFI variables
ii libegl1-mesa:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the EGL API -- runtime
ii libegl1-mesa:i386 11.2.0-1ubuntu2.2 i386 free implementation of the EGL API -- runtime
ii libelf1:amd64 0.165-3ubuntu1 amd64 library to read and write ELF files
ii libelf1:i386 0.165-3ubuntu1 i386 library to read and write ELF files
ii libemail-valid-perl 1.198-1 all Perl module for checking the validity of Internet email addresses
ii libenchant1c2a:amd64 1.6.0-10.1build2 amd64 Wrapper library for various spell checker engines (runtime libs)
ii libenchant1c2a:i386 1.6.0-10.1build2 i386 Wrapper library for various spell checker engines (runtime libs)
ii libencode-locale-perl 1.05-1 all utility to determine the locale encoding
ii libeot0:amd64 0.01-3ubuntu1 amd64 Library for parsing/converting Embedded OpenType files
ii libepoxy0:amd64 1.3.1-1 amd64 OpenGL function pointer

management library
ii liberror-perl 0.17-1.2 all Perl module for error/exception handling in an OO-ish way
ii libespeak1:amd64 1.48.04+dfsg-2 amd64 Multi-lingual software speech synthesizer: shared library
ii libestr0 0.1.10-1 amd64 Helper functions for handling strings (lib)
ii libetonyek-0.1-1:amd64 0.1.6-1ubuntu1 amd64 library for reading and converting Apple Keynote presentations
ii libevdev2:amd64 1.4.6+dfsg-1 amd64 wrapper library for evdev devices
ii libevdocument3-4:amd64 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) rendering library
ii libevent-2.0-5:amd64 2.0.21-stable-2 amd64 Asynchronous event notification library
ii libevview3-3:amd64 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) rendering library - Gtk+ widgets
ii libexempi3:amd64 2.2.2-2 amd64 library to parse XMP metadata (Library)
ii libexif12:amd64 0.6.21-2 amd64 library to parse EXIF files
ii libexiv2-14:amd64 0.25-2.1 amd64 EXIF/IPTC metadata manipulation library
ii libexpat1:amd64 2.1.0-7ubuntu0.16.04.2 amd64 XML parsing C library - runtime library
ii libexpat1:i386 2.1.0-7ubuntu0.16.04.2 i386 XML parsing C library - runtime library
ii libexpat1-dev:amd64 2.1.0-7ubuntu0.16.04.2 amd64 XML parsing C library - development kit
ii libexporter-lite-perl 0.08-1 all lightweight subset of Exporter
ii libexporter-tiny-perl 0.042-1 all tiny exporter similar to Sub::Exporter
ii libexttextcat-2.0-0:amd64 3.4.4-1ubuntu3 amd64 Language detection library
ii libexttextcat-data 3.4.4-1ubuntu3 all Language detection library - data files
ii libfaad2:amd64 2.8.0~cvs20150510-1 amd64 freeware Advanced Audio Decoder - runtime files
ii libfakeroot:amd64 1.20.2-1ubuntu1 amd64 tool for simulating superuser privileges - shared libraries
ii libfcgi-perl 0.77-1build1 amd64 helper module for FastCGI
ii libfcitx-config4:amd64 1:4.2.9.1-1ubuntu1.16.04.2 amd64 Flexible Input Method Framework - configuration support library
ii libfcitx-gclient0:amd64 1:4.2.9.1-1ubuntu1.16.04.2 amd64 Flexible Input Method Framework - D-Bus client library for Glib
ii libfcitx-utils0:amd64 1:4.2.9.1-1ubuntu1.16.04.2 amd64 Flexible Input

Method Framework - utility support library
ii libfdisk1:amd64 2.27.1-6ubuntu3.2 amd64 fdisk partitioning library
ii libffi-dev:amd64 3.2.1-4 amd64 Foreign Function Interface library (development files)
ii libffi6:amd64 3.2.1-4 amd64 Foreign Function Interface library runtime
ii libffi6:i386 3.2.1-4 i386 Foreign Function Interface library runtime
ii libfftw3-double3:amd64 3.3.4-2ubuntu1 amd64 Library for computing Fast Fourier Transforms - Double precision
ii libfftw3-single3:amd64 3.3.4-2ubuntu1 amd64 Library for computing Fast Fourier Transforms - Single precision
ii libfile-basedir-perl 0.07-1 all Perl module to use the freedesktop basedir specification
ii libfile-copy-recursive-perl 0.38-1 all Perl extension for recursively copying files and directories
ii libfile-desktopentry-perl 0.22-1 all Perl module to handle freedesktop .desktop files
ii libfile-fcntllock-perl 0.22-3 amd64 Perl module for file locking with fcntl(2)
ii libfile-homedir-perl 1.00-1 all Perl module for finding user directories across platforms
ii libfile-listing-perl 6.04-1 all module to parse directory listings
ii libfile-mimeinfo-perl 0.27-1 all Perl module to determine file types
ii libfile-stripnondeterminism-perl 0.015-1 all Perl module for stripping non-determinism from files
ii libfile-which-perl 1.19-1 all Perl module for searching paths for executable programs
ii libfl-dev:amd64 2.6.0-11 amd64 static library for flex (a fast lexical analyzer generator)
ii libflac8:amd64 1.3.1-4 amd64 Free Lossless Audio Codec - runtime C library
ii libflac8:i386 1.3.1-4 i386 Free Lossless Audio Codec - runtime C library
ii libflite1:amd64 2.0.0-release-1 amd64 Small run-time speech synthesis engine - shared libraries
ii libfluidsynth1:amd64 1.1.6-3 amd64 Real-time MIDI software synthesizer (runtime library)
ii libfont-afm-perl 1.20-1 all Font::AFM - Interface to Adobe Font Metrics files
ii libfontconfig1:amd64 2.11.94-0ubuntu1.1 amd64 generic font configuration library - runtime
ii libfontconfig1:i386 2.11.94-0ubuntu1.1 i386 generic font configuration library - runtime
ii libfontconfig1-dev:amd64 2.11.94-0ubuntu1.1 amd64 generic font

configuration library - development
ii libfontembed1:amd64 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Font Embed Shared library
ii libfontenc1:amd64 1:1.1.3-1 amd64 X11 font encoding library
ii libframe6:amd64 2.5.0daily13.06.05+16.04.20160809-0ubuntu1 amd64 Touch Frame Library
ii libfreehand-0.1-1:amd64 0.1.1-1ubuntu1 amd64 Library for parsing the FreeHand file format structure
ii libfreehep-export-java 2.1.1-2 all FreeHEP Export and Save As Library
ii libfreehep-graphics2d-java 2.1.1-4 all FreeHEP 2D Graphics Library
ii libfreehep-graphicsio-emf-java 2.1.1-emfplus+dfsg1-2 all FreeHEP Enhanced Metafile Format Driver
ii libfreehep-graphicsio-java 2.1.1-3 all FreeHEP GraphicsIO Base Library
ii libfreehep-graphicsio-pdf-java 2.1.1+dfsg-1 all FreeHEP Portable Document Format Driver
ii libfreehep-graphicsio-svg-java 2.1.1-3 all FreeHEP Scalable Vector Graphics Driver
ii libfreehep-graphicsio-tests-java 2.1.1+dfsg1-3 all FreeHEP GraphicsIO Test Library
ii libfreehep-io-java 2.0.2-4 all FreeHEP I/O library
ii libfreehep-swing-java 2.0.3-3 all FreeHEP swing extensions
ii libfreehep-util-java 2.0.2-5 all FreeHEP utility library
ii libfreehep-xml-java 2.1.2+dfsg1-3 all FreeHEP XML Library
ii libfreerdp-cache1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (cache library)
ii libfreerdp-client1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (client library)
ii libfreerdp-codec1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (codec library)
ii libfreerdp-common1.1.0:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (common library)
ii libfreerdp-core1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (core library)
ii libfreerdp-crypto1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (freerdp-crypto library)
ii libfreerdp-gdi1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (GDI library)
ii libfreerdp-locale1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (locale library)
ii libfreerdp-plugins-standard:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 RDP client for Windows Terminal Services (plugins)
ii libfreerdp-primitives1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64

Free Remote Desktop Protocol library (primitives library)
ii libfreerdp-utils1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (freerdp-utils library)
ii libfreetype6:amd64 2.6.1-0.1ubuntu2 amd64 FreeType 2 font engine, shared library files
ii libfreetype6:i386 2.6.1-0.1ubuntu2 i386 FreeType 2 font engine, shared library files
ii libfreetype6-dev:amd64 2.6.1-0.1ubuntu2 amd64 FreeType 2 font engine, development files
ii libfribidi0:amd64 0.19.7-1 amd64 Free Implementation of the Unicode BiDi algorithm
ii libfuse2:amd64 2.9.4-1ubuntu3.1 amd64 Filesystem in Userspace (library)
ii libfwup0:amd64 0.5-2ubuntu4 amd64 Library to manage UEFI firmware updates
ii libfwupd1:amd64 0.7.0-0ubuntu4.3 amd64 Firmware update daemon library
ii libgail-3-0:amd64 3.18.9-1ubuntu3.1 amd64 GNOME Accessibility Implementation Library -- shared libraries
ii libgail-common:amd64 2.24.30-1ubuntu1 amd64 GNOME Accessibility Implementation Library -- common modules
ii libgail18:amd64 2.24.30-1ubuntu1 amd64 GNOME Accessibility Implementation Library -- shared libraries
ii libgbm1:amd64 11.2.0-1ubuntu2.2 amd64 generic buffer management API -- runtime
ii libgbm1:i386 11.2.0-1ubuntu2.2 i386 generic buffer management API -- runtime
ii libgc1c2:amd64 1:7.4.2-7.3 amd64 conservative garbage collector for C and C++
ii libgcab-1.0-0:amd64 0.7-1 amd64 Microsoft Cabinet file manipulation library
ii libgcc-4.9-dev:amd64 4.9.3-13ubuntu2 amd64 GCC support library (development files)
ii libgcc-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC support library (development files)
ii libgcc1:amd64 1:6.0.1-0ubuntu1 amd64 GCC support library
ii libgcc1:i386 1:6.0.1-0ubuntu1 i386 GCC support library
ii libgck-1-0:amd64 3.18.0-1ubuntu1 amd64 Glib wrapper library for PKCS#11 - runtime
ii libgconf-2-4:amd64 3.2.6-3ubuntu6 amd64 GNOME configuration database system (shared libraries)
ii libgcr-3-common 3.18.0-1ubuntu1 all Library for Crypto UI related tasks - common files
ii libgcr-base-3-1:amd64 3.18.0-1ubuntu1 amd64 Library for Crypto related tasks
ii libgcr-ui-3-1:amd64 3.18.0-1ubuntu1 amd64 Library for Crypto UI related tasks
ii libgcrypt11-dev 1.5.4-3+really1.6.5-2ubuntu0.2 all transitional

libgcrypt11-dev package
ii libgcrypt20:amd64 1.6.5-2ubuntu0.2
amd64 LGPL Crypto library - runtime library
ii libgcrypt20:i386 1.6.5-2ubuntu0.2 i386 LGPL Crypto library -
runtime library
ii libgcrypt20-dev 1.6.5-2ubuntu0.2 amd64 LGPL Crypto library
- development files
ii libgd3:amd64 2.1.1-4ubuntu0.16.04.5 amd64 GD Graphics
Library
ii libgdata-common 0.17.4-1 all Library for accessing
GData webservices - common data files
ii libgdata22:amd64 0.17.4-1 amd64 Library for accessing
GData webservices - shared libraries
ii libgdbm3:amd64 1.8.3-13.1 amd64
GNU dbm database routines (runtime version)
ii libgdiplus 4.2-1ubuntu1 amd64 interface library for
System.Drawing of Mono
ii libgdk-pixbuf2.0-0:amd64 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf
library
ii libgdk-pixbuf2.0-0:i386 2.32.2-1ubuntu1.2 i386 GDK Pixbuf library
ii libgdk-pixbuf2.0-common 2.32.2-1ubuntu1.2 all GDK Pixbuf
library - data files
ii libgdk-pixbuf2.0-dev 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf
library (development files)
ii libgee-0.8-2:amd64 0.18.0-1 amd64 GObject based
collection and utility library
ii libgeis1:amd64
2.2.17+16.04.20160126-0ubuntu1 amd64 Gesture engine interface
support
ii libgeoclue0:amd64 0.12.99-4ubuntu1 amd64 C API for GeoClue
ii libgeoclue0:i386 0.12.99-4ubuntu1 i386 C API for GeoClue
ii libgeocode-glib0:amd64 3.18.2-1 amd64 geocoding and
reverse geocoding GLib library using Nominatim
ii libgeoip1:amd64 1.6.9-1 amd64 non-DNS IP-to-country
resolver library
ii libgeonames0:amd64 0.2+16.04.20160321-0ubuntu1 amd64 Parse and
query the geonames database dump
ii libgeronimo-interceptor-3.0-spec-java
1.0.1-3fakesync1 all Geronimo API implementation of the Interceptor 3.0 spec
ii libgetopt-tabular-perl 0.3-2 all table-driven argument
parsing for Perl 5
ii libgettextpo-dev:amd64 0.19.7-2ubuntu3 amd64 GNU
Internationalization library development files
ii libgettextpo0:amd64 0.19.7-2ubuntu3 amd64 GNU
Internationalization library
ii libgexiv2-2:amd64 0.10.3-2 amd64 GObject-based wrapper
around the Exiv2 library
ii libgfortran-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime

library for GNU Fortran applications (development files)
ii libgfortran3:amd64
5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Fortran
applications
ii libgif7:amd64 5.1.4-0.3~16.04 amd64 library for GIF images
(library)
ii libgirepository-1.0-1:amd64 1.46.0-3ubuntu1 amd64 Library for
handling GObject introspection data (runtime library)
ii libgl1-mesa-dev:amd64 11.2.0-1ubuntu2.2 amd64 free
implementation of the OpenGL API -- GLX development files
ii libgl1-mesa-dri:amd64 11.2.0-1ubuntu2.2 amd64 free
implementation of the OpenGL API -- DRI modules
ii libgl1-mesa-dri:i386 11.2.0-1ubuntu2.2 i386 free implementation
of the OpenGL
API -- DRI modules
ii libgl1-mesa-glx:amd64 11.2.0-1ubuntu2.2 amd64 free
implementation of the OpenGL API -- GLX runtime
ii libgl1-mesa-glx:i386 11.2.0-1ubuntu2.2 i386 free implementation
of the OpenGL API -- GLX runtime
ii libglapi-mesa:amd64 11.2.0-1ubuntu2.2 amd64 free
implementation of the GL API -- shared library
ii libglapi-mesa:i386 11.2.0-1ubuntu2.2 i386 free implementation
of the GL API -- shared library
ii libglew1.13:amd64 1.13.0-2 amd64 OpenGL Extension
Wrangler - runtime environment
ii libglewmx1.13:amd64 1.13.0-2
amd64 OpenGL Extension Wrangler (Multiple Rendering Contexts)
ii libglib2.0-0:amd64 2.48.2-0ubuntu1 amd64 GLib library of C
routines
ii libglib2.0-0:i386 2.48.2-0ubuntu1 i386 GLib library of C
routines
ii libglib2.0-bin 2.48.2-0ubuntu1 amd64 Programs for the GLib
library
ii libglib2.0-data 2.48.2-0ubuntu1 all Common files for GLib
library
ii libglib2.0-dev 2.48.2-0ubuntu1 amd64 Development files for
the GLib library
ii libglibmm-2.4-1v5:amd64 2.46.3-1 amd64 C++ wrapper for the
GLib toolkit
(shared libraries)
ii libglu1-mesa:amd64 9.0.0-2.1 amd64 Mesa OpenGL utility
library (GLU)
ii libgme0:amd64 0.6.0-3ubuntu0.16.04.1 amd64 Playback library
for video game music files - shared library
ii libgmime-2.6-0:amd64 2.6.20-1 amd64 MIME message
parser and creator library - runtime
ii libgmp-dev:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision
arithmetic library developers tools

ii libgmp10:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision arithmetic library
ii libgmp10:i386 2:6.1.0+dfsg-2 i386 Multiprecision arithmetic library
ii libgmpxx4ldbl:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision arithmetic library (C++ bindings)
ii libgnome-bluetooth13:amd64 3.18.2-1ubuntu2 amd64 GNOME Bluetooth tools - support library
ii libgnome-desktop-3-12:amd64 3.18.2-1ubuntu1 amd64 Utility library for loading .desktop files - runtime files
ii libgnome-keyring-common 3.12.0-1build1 all GNOME keyring services library - data files
ii libgnome-keyring0:amd64 3.12.0-1build1 amd64 GNOME keyring services library
ii libgnome-menu-3-0:amd64 3.13.3-6ubuntu3.1 amd64 GNOME implementation of the freedesktop menu specification
ii libgnomekbd-common 3.6.0-1ubuntu2 all GNOME library to manage keyboard configuration - common files
ii libgnomekbd8:amd64 3.6.0-1ubuntu2 amd64 GNOME library to manage keyboard configuration - shared library
ii libgnutls-openssl27:amd64 3.4.10-4ubuntu1.2 amd64 GNU TLS library - OpenSSL wrapper
ii libgnutls30:amd64 3.4.10-4ubuntu1.2 amd64 GNU TLS library - main runtime library
ii libgnutls30:i386 3.4.10-4ubuntu1.2 i386 GNU TLS library - main runtime library
ii libgoa-1.0-0b:amd64 3.18.3-1ubuntu2 amd64 library for GNOME Online Accounts
ii libgoa-1.0-common 3.18.3-1ubuntu2 all library for GNOME Online Accounts - common files
ii libgom-1.0-0:amd64 0.3.1-1 amd64 Object mapper from GObjects to SQLite
ii libgom-1.0-common 0.3.1-1 all libgom architecture-independent files
ii libgomp1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC OpenMP (GOMP) support library
ii libgpg-error-dev 1.21-2ubuntu1 amd64 library for common error values and messages in GnuPG components (development)
ii libgpg-error0:amd64 1.21-2ubuntu1 amd64 library for common error values and messages in GnuPG components
ii libgpg-error0:i386 1.21-2ubuntu1 i386 library for common error values and messages in GnuPG components
ii libgpgme11:amd64 1.6.0-1 amd64 GPGME - GnuPG Made Easy (library)
ii libgphoto2-6:amd64 2.5.9-3 amd64 gphoto2 digital camera library
ii libgphoto2-l10n 2.5.9-3 all gphoto2 digital camera

library - localized messages
ii libgphoto2-port12:amd64 2.5.9-3 amd64 gphoto2 digital camera port library
ii libgpm2:amd64 1.20.4-6.1 amd64 General Purpose Mouse - shared library
ii libgpm2:i386 1.20.4-6.1 i386 General Purpose Mouse - shared library
ii libgpod-common 0.8.3-6ubuntu2 amd64 common files for libgpod
ii libgpod4:amd64 0.8.3-6ubuntu2 amd64 library to read and write songs and artwork to an iPod
ii libgrail6 3.1.0+16.04.20160125-0ubuntu1 amd64 Gesture Recognition And Instantiation Library
ii libgraphite2-3:amd64 1.3.6-1ubuntu1 amd64 Font rendering engine for Complex Scripts -- library
ii libgraphite2-3:i386 1.3.6-1ubuntu1 i386 Font rendering engine for Complex Scripts -- library
ii libgrilo-0.2-1:amd64 0.2.15-1 amd64 Framework for discovering and browsing media - Shared libraries
ii libgs9:amd64 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF - Library
ii libgs9-common 9.18~dfsg~0-0ubuntu2.3 all interpreter for the PostScript language and for PDF - common files
ii libgsettings-qt1:amd64 0.1+16.04.20160329-0ubuntu1 amd64 Library to access GSettings from Qt
ii libgsl2:amd64 2.1+dfsg-2 amd64 GNU Scientific Library (GSL) -- library package
ii libgsm1:amd64 1.0.13-4 amd64 Shared libraries for GSM speech compressor
ii libgssapi-krb5-2:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
ii libgssapi-krb5-2:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
ii libgssapi3-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - GSSAPI support library
ii libgstreamer-plugins-bad1.0-0:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer development files for libraries from the "bad" set
ii libgstreamer-plugins-base1.0-0:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer libraries
from the "base" set
ii libgstreamer-plugins-base1.0-0:i386 1.8.2-1ubuntu0.2 i386 GStreamer libraries from the "base" set
ii libgstreamer-plugins-good1.0-0:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer development files for libraries from the "good" set
ii libgstreamer-plugins-good1.0-0:i386 1.8.2-1ubuntu0.3 i386 GStreamer development files for libraries from the "good" set
ii libgstreamer1.0-0:amd64 1.8.2-1~ubuntu1 amd64 Core GStreamer

libraries and elements
ii libgstreamer1.0-0:i386 1.8.2-1~ubuntu1 i386 Core GStreamer libraries and elements
ii libgtk-3-0:amd64 3.18.9-1ubuntu3.1 amd64 GTK+ graphical user interface library
ii libgtk-3-bin 3.18.9-1ubuntu3.1 amd64 programs for the GTK+ graphical user interface library
ii libgtk-3-common 3.18.9-1ubuntu3.1 all common files for the GTK+ graphical user interface library
ii libgtk2.0-0:amd64 2.24.30-1ubuntu1 amd64 GTK+ graphical user interface library
ii libgtk2.0-0:i386 2.24.30-1ubuntu1 i386 GTK+ graphical user interface library
ii libgtk2.0-bin 2.24.30-1ubuntu1 amd64 programs for the GTK+ graphical user interface library
ii libgtk2.0-common 2.24.30-1ubuntu1 all common files for the GTK+ graphical user interface library
ii libgtk2.0-dev 2.24.30-1ubuntu1 amd64 development files for the GTK+ library
ii libgtkglext1:amd64 1.2.0-3.2fakesync1ubuntu1 amd64 OpenGL Extension to GTK+ (shared libraries)
ii libgtkmm-3.0-1v5:amd64 3.18.0-1 amd64 C++ wrappers for GTK+ (shared libraries)
ii libgtksourceview-3.0-1:amd64 3.18.2-1 amd64 shared libraries for the GTK+ syntax highlighting widget
ii libgtksourceview-3.0-common 3.18.2-1 all common files for the GTK+ syntax highlighting widget
ii libgtkspell3-3-0:amd64 3.0.7-2 amd64 spell-checking addon for GTK+'s TextView widget
ii libgtop-2.0-10:amd64 2.32.0-1 amd64 gtop system monitoring library (shared)
ii libgtop2-common 2.32.0-1 all gtop system monitoring library (common)
ii libguava-java 19.0-1 all Suite of Google common libraries for Java
ii libgucharmap-2-90-7:amd64 1:3.18.2-1ubuntu1 amd64 Unicode browser widget library (shared library)
ii libgudev-1.0-0:amd64 1:230-2 amd64 GObject-based wrapper library for libudev
ii libgudev-1.0-0:i386 1:230-2 i386 GObject-based wrapper library for libudev
ii libguice-java 4.0-2 all lightweight dependency injection framework for Java 5 and above
ii libgusb2:amd64 0.2.9-0ubuntu1 amd64 GLib wrapper around libusb1
ii libgutenprint2 5.2.11-1 amd64 runtime for the Gutenprint printer driver library
ii libgvc6 2.38.0-12ubuntu2.1 amd64 rich set of graph

drawing tools - gvc library
ii libgvpr2 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - gvpr library
ii libgweather-3-6:amd64 3.18.2-0ubuntu0.1 amd64 GWeather shared library
ii libgweather-common 3.18.2-0ubuntu0.1 all GWeather common files
ii libgxps2:amd64 0.2.3.2-1 amd64 handling and rendering XPS documents (library)
ii libhamcrest-java 1.3-5ubuntu1 all library of matchers for building test expressions
ii libhardware2 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to the Android libhardware HAL
ii libharfbuzz-dev 1.0.1-1ubuntu0.1 amd64 Development files for OpenType text shaping engine
ii libharfbuzz-gobject0:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text shaping engine ICU backend (GObject library)
ii libharfbuzz-icu0:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text shaping engine ICU backend
ii libharfbuzz-icu0:i386 1.0.1-1ubuntu0.1 i386 OpenType text shaping engine ICU backend
ii libharfbuzz0b:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text shaping engine (shared library)
ii libharfbuzz0b:i386 1.0.1-1ubuntu0.1 i386 OpenType text shaping engine (shared library)
ii libhcrypto4-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - crypto library
ii libheimbase1-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - Base library
ii libheimntlm0-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - NTLM support library
ii libhighgui-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libhighgui-dev
ii libhogweed4:amd64 3.2-1ubuntu0.16.04.1 amd64 low level cryptographic library (public-key cryptos)
ii libhogweed4:i386 3.2-1ubuntu0.16.04.1 i386 low level cryptographic library (public-key cryptos)
ii libhpmud0:amd64 3.16.3+repack0-1 amd64 HP Multi-Point Transport Driver (hpmud) run-time libraries
ii libhtml-form-perl 6.03-1 all module that represents an HTML form element
ii libhtml-format-perl 2.11-2 all module for transforming HTML into various formats
ii libhtml-parser-perl 3.72-1 amd64 collection of modules that parse HTML text documents
ii libhtml-tagset-perl 3.20-2 all Data tables pertaining to HTML
ii libhtml-tree-perl 5.03-2 all Perl module to represent and

create HTML syntax trees
ii libhttp-cookies-perl 6.01-1 all HTTP cookie jars
ii libhttp-daemon-perl
6.01-1 all simple http server class
ii libhttp-date-perl 6.02-1 all module of date conversion
routines
ii libhttp-message-perl 6.11-1 all perl interface to HTTP style
messages
ii libhttp-negotiate-perl 6.00-2 all implementation of content
negotiation
ii libhttpclient-java 4.5.1-1 all HTTP/1.1 compliant HTTP
agent implementation
ii libhttpcore-java 4.4.4-1 all set of low level HTTP
transport components for Java
ii libhud2:amd64 14.10+16.04.20160415-0ubuntu1
amd64 library for exporting items to the Unity HUD
ii libhunspell-1.3-0:amd64 1.3.3-4ubuntu1 amd64 spell checker and
morphological analyzer (shared library)
ii libhunspell-1.3-0:i386 1.3.3-4ubuntu1 i386 spell checker and
morphological analyzer (shared library)
ii libhx509-5-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal
Kerberos - X509 support library
ii libhybris 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Allows to run
bionic-based HW adaptations in glibc systems - libs
ii libhybris-common1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64
Common library that contains the Android linker and custom hooks
ii libhyphen0:amd64
2.8.8-2ubuntu1 amd64 ALTLinux hyphenation library - shared
library
ii libibus-1.0-5:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input
Bus - shared library
ii libical1a:amd64 1.0.1-0ubuntu2 amd64 iCalendar library
implementation in C (runtime)
ii libice-dev:amd64 2:1.0.9-1 amd64 X11 Inter-Client
Exchange library (development headers)
ii libice6:amd64 2:1.0.9-1 amd64 X11 Inter-Client
Exchange library
ii libice6:i386 2:1.0.9-1 i386 X11 Inter-Client Exchange
library
ii libicu-dev:amd64
55.1-7 amd64 Development files for International
Components for Unicode
ii libicu55:amd64 55.1-7 amd64 International Components
for Unicode
ii libicu55:i386 55.1-7 i386 International Components for
Unicode
ii libidn11:amd64 1.32-3ubuntu1.1 amd64 GNU Libidn library,
implementation of IETF IDN specifications

ii libidn11:i386 1.32-3ubuntu1.1 i386 GNU Libidn library, implementation of IETF IDN specifications
ii libido3-0.1-0:amd64 13.10.0+16.04.20161028-0ubuntu1 amd64 Shared library providing extra
gtk menu items for display in
ii libiec61883-0:amd64 1.2.0-0.2 amd64 an partial implementation of IEC 61883
ii libiec61883-0:i386 1.2.0-0.2 i386 an partial implementation of IEC 61883
ii libieee1284-3:amd64 0.2.11-12 amd64 cross-platform library for parallel port access
ii libijs-0.35:amd64 0.35-12 amd64 IJS raster image transport protocol: shared library
ii libilmbase-dev 2.2.0-11ubuntu2 amd64 development files for IlmBase
ii libilmbase12:amd64 2.2.0-11ubuntu2 amd64 several utility libraries
from ILM used by OpenEXR
ii libimobiledevice6:amd64 1.2.0+dfsg-3~ubuntu0.2 amd64 Library for communicating with the iPhone and iPod Touch
ii libindicator3-7 12.10.2+16.04.20151208-0ubuntu1 amd64 panel indicator applet - shared library
ii libindicator7 12.10.2+16.04.20151208-0ubuntu1 amd64 panel indicator applet - shared library
ii libinput10:amd64 1.2.3-1ubuntu1 amd64 input device management and event handling library - shared library
ii libio-html-perl 1.001-1 all open an HTML file with automatic charset detection
ii libio-pty-perl 1:1.08-1.1build1
amd64 Perl module for pseudo tty IO
ii libio-socket-inet6-perl 2.72-2 all object interface for AF_INET6 domain sockets
ii libio-socket-ssl-perl 2.024-1 all Perl module implementing object oriented interface to SSL sockets
ii libio-string-perl 1.08-3 all Emulate IO::File interface for in-core strings
ii libipc-run-perl 0.94-1 all Perl module for running processes
ii libipc-system-simple-perl 1.25-3 all Perl module to run commands simply, with detailed diagnostics
ii libisc-export160 1:9.10.3.dfsg.P4-8ubuntu1.4
amd64 Exported ISC Shared Library
ii libisc160:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 ISC Shared Library used by BIND
ii libisccc140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Command Channel Library used by BIND
ii libisccfg140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Config File Handling Library used by BIND

ii libisl15:amd64 0.16.1-1 amd64 manipulating sets and relations of integer points bounded by linear constraints
ii libitm1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Transactional Memory Library
ii libiw30:amd64 30~pre9-8ubuntu1 amd64 Wireless tools - library
ii libjack-jackd2-0:amd64 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 amd64 JACK Audio Connection Kit (libraries)
ii libjack-jackd2-0:i386 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 i386 JACK Audio Connection Kit (libraries)
ii libjas-java 2.5.4408-1 all Java object-oriented type-safe Algebra System
ii libjas-plotter-java 2.2.6+dfsg1-2 all JAS(2) Plotter graphic library
ii libjasper-dev 1.900.1-debian1-2.4ubuntu1 amd64 Development files for the JasPer JPEG-2000 library
ii libjasper1:amd64 1.900.1-debian1-2.4ubuntu1 amd64 JasPer JPEG-2000 runtime library
ii libjavascriptcoregtk-1.0-0:i386 2.4.11-0ubuntu0.1 i386 JavaScript engine library from WebKitGTK+
ii libjavascriptcoregtk-4.0-18:amd64 2.14.3-0ubuntu0.16.04.1 amd64 JavaScript engine library from WebKitGTK+
ii libjavascriptcoregtk-4.0-18:i386 2.14.3-0ubuntu0.16.04.1 i386 JavaScript engine library from WebKitGTK+
ii libjaxen-java 1.1.6-1ubuntu1 all Java XPath engine
ii libjaxp1.3-java 1.3.05-2ubuntu3 all Java XML parser and transformer APIs (DOM, SAX, JAXP, TrAX)
ii libjbig-dev:amd64 2.1-3.1 amd64 JBIGkit development files
ii libjbig0:amd64 2.1-3.1 amd64 JBIGkit libraries
ii libjbig0:i386 2.1-3.1 i386 JBIGkit libraries
ii libjbig2dec0 0.12+20150918-1 amd64 JBIG2 decoder library - shared libraries
ii libjcommon-java 1.0.16-5 all General Purpose library for Java
ii libjdom1-java 1.1.3-1 all lightweight and fast library using XML
ii libjetty-java 6.1.26-5 all Java servlet engine and webserver -- core libraries
ii libjfreechart-java 1.0.13-8 all Chart library for Java
ii libjfugue-java 4.0.3-3 all Java API for music programming
ii libjlatexmath-java 1.0.3-1 all Implementation of LaTeX math mode wrote in Java
ii libjpeg-dev:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)

ii libjpeg-turbo8:amd64 1.4.2-0ubuntu3 amd64 IJG JPEG compliant runtime library.
ii libjpeg-turbo8:i386 1.4.2-0ubuntu3 i386 IJG JPEG compliant runtime library.
ii libjpeg-turbo8-dev:amd64 1.4.2-0ubuntu3 amd64 Development files for the IJG JPEG library
ii libjpeg62:i386 1:6b2-2 i386 Independent JPEG Group's JPEG runtime library (version 6.2)
ii libjpeg8:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjpeg8:i386 8c-2ubuntu8 i386 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjpeg8-dev:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjs-inherits 2.0.1-3 all Exposes inherits function from Node.js
environment
ii libjs-jquery 1.11.3+dfsg-4 all JavaScript library for dynamic web applications
ii libjs-modernizr 2.6.2+ds1-1ubuntu1 all JavaScript library to detect HTML5 and CSS3 features in the user's browser
ii libjs-node-uuid 1.4.0-1 all simple, fast generation of RFC4122 UUIDs - JavaScript library
ii libjs-sphinxdoc 1.3.6-2ubuntu1 all JavaScript support for Sphinx documentation
ii libjs-underscore 1.7.0~dfsg-1ubuntu1 all JavaScript's functional programming helper library
ii libjsch-java 0.1.53-1ubuntu1 all Java implementation of the SSH2 protocol
ii libjson-c2:amd64 0.11-4ubuntu2 amd64 JSON manipulation library - shared library
ii libjson-c2:i386 0.11-4ubuntu2 i386 JSON manipulation library - shared library
ii libjson-glib-1.0-0:amd64 1.1.2-0ubuntu1 amd64 GLib JSON manipulation library
ii libjson-glib-1.0-common 1.1.2-0ubuntu1 all GLib JSON manipulation library (common files)
ii libjsoncpp1:amd64 1.7.2-1 amd64 library for reading and writing JSON for C++
ii libjsoup-java 1.8.3-1 all Java HTML parser that makes sense of real-world HTML soup
ii libjsr305-java 0.1~+svn49-9 all Java library that provides annotations for software defect detection
ii libk5crypto3:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - Crypto Library
ii libk5crypto3:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - Crypto Library
ii libkate1:amd64 0.4.1-7 amd64 Codec for karaoke and

text encapsulation
ii libkeyutils1:amd64 1.5.9-8ubuntu1 amd64 Linux Key Management Utilities (library)
ii libkeyutils1:i386 1.5.9-8ubuntu1 i386 Linux Key Management Utilities (library)
ii libklibc 2.0.4-8ubuntu1.16.04.2 amd64 minimal libc subset for use with initramfs
ii libkmod2:amd64 22-1ubuntu4 amd64 libkmod shared library
ii libkpathsea6:amd64 2015.20160222.37495-1 amd64 TeX Live: path search library for TeX (runtime part)
ii libkrb5-26-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - libraries
ii libkrb5-3:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries
ii libkrb5-3:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries
ii libkrb5support0:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - Support library
ii libkrb5support0:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - Support library
ii libksba8:amd64 1.3.3-1ubuntu0.16.04.1 amd64 X.509 and CMS support library
ii liblangtag-common 0.5.7-2ubuntu1 all library to access tags for identifying languages -- data
ii liblangtag1:amd64 0.5.7-2ubuntu1 amd64 library to access tags for identifying languages
ii liblapack-dev 3.6.0-2ubuntu2 amd64 Library of linear algebra routines 3 - static version
ii liblapack3 3.6.0-2ubuntu2 amd64 Library of linear algebra routines 3 - shared version
ii liblcms2-2:amd64 2.6-3ubuntu2 amd64 Little CMS 2 color management library
ii liblcms2-2:i386 2.6-3ubuntu2 i386 Little CMS 2 color management library
ii liblcms2-utils 2.6-3ubuntu2 amd64 Little CMS 2 color management library (utilities)
ii libldap-2.4-2:amd64 2.4.42+dfsg-2ubuntu3.1 amd64 OpenLDAP libraries
ii libldb1:amd64 2:1.1.24-1ubuntu3 amd64 LDAP-like embedded database - shared library
ii liblightdm-gobject-1-0:amd64 1.18.3-0ubuntu1 amd64 LightDM GObject client library
ii liblircclient0:amd64 0.9.0-0ubuntu6 amd64 infra-red remote control support - client library
ii liblist-moreutils-perl 0.413-1build1 amd64 Perl module with additional list functions not found in List::Util
ii liblldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-

performance debugger, library
ii libllvm3.8:amd64 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, runtime library
ii libllvm3.8:i386 1:3.8-2ubuntu4 i386 Modular compiler and toolchain technologies, runtime library
ii liblocale-gettext-perl 1.07-1build1 amd64 module using libc functions for internationalization in Perl
ii liblog4j1.2-java 1.2.17-7ubuntu1 all Logging library for java
ii liblouis-data 2.6.4-2 all Braille translation library - data
ii liblouis9:amd64 2.6.4-2 amd64 Braille translation library - shared libs
ii liblouisutdml-bin 2.5.0-3 amd64 Braille UTDML translation utilities
ii liblouisutdml-data 2.5.0-3 all Braille UTDML translation library - data
ii liblouisutdml6:amd64 2.5.0-3 amd64 Braille UTDML translation library - shared libs
ii liblqr-1-0:amd64 0.4.2-2 amd64 converts plain array images into multi-size representation
ii liblsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 LeakSanitizer -- a memory leak detector (runtime)
ii libltdl7:amd64 2.4.6-0.1 amd64 System independent dlopen wrapper for GNU libtool
ii liblua5.1-0:amd64 5.1.5-8ubuntu1 amd64 Shared library for the Lua interpreter version 5.1
ii liblua5.2-0:amd64 5.2.4-1ubuntu1 amd64 Shared library for the Lua interpreter version 5.2
ii libluajit-5.1-2:amd64 2.0.4+dfsg-1 amd64 Just in time compiler for Lua - library version
ii libluajit-5.1-common 2.0.4+dfsg-1 all Just in time compiler for Lua - common files
ii liblwp-mediatypes-perl 6.02-1 all module to guess media type for a file or a URL
ii liblwp-protocol-https-perl 6.06-2 all HTTPS driver for LWP::UserAgent
ii liblwres141:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Lightweight Resolver Library used by BIND
ii liblz4-1:amd64 0.0~r131-2ubuntu2 amd64 Fast LZ compression algorithm library - runtime
ii liblzma-dev:amd64 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression library - development files
ii liblzma5:amd64 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression library
ii liblzma5:i386 5.1.1alpha+20120614-2ubuntu2 i386 XZ-format compression library
ii liblzo2-2:amd64 2.08-1.2 amd64 data compression library

ii libmad0:amd64 0.15.1b-8ubuntu1 amd64 MPEG audio decoder library
ii libmagic1:amd64 1:5.25-2ubuntu1 amd64 File type determination library using "magic" numbers
ii libmagickcore-6.q16-2:amd64 8:6.8.9.9-7ubuntu5.3 amd64 low-level image manipulation library -- quantum depth Q16
ii libmagickcore-6.q16-2-extra:amd64 8:6.8.9.9-7ubuntu5.3 amd64 low-level image manipulation library - extra codecs (Q16)
ii libmagickwand-6.q16-2:amd64 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation library
ii libmail-sendmail-perl 0.79.16-1 all Send email from a perl script
ii libmailtools-perl 2.13-1 all Manipulate email in perl programs
ii libmaven-parent-java 21-2 all Maven metadata for Apache Maven itself
ii libmaven2-core-java 2.2.1-24 all Core libraries for Maven2
ii libmaven3-core-java 3.3.9-3 all Core libraries for Maven 3
ii libmbim-glib4:amd64 1.12.2-2ubuntu1 amd64 Support library to use the MBIM protocol
ii libmbim-proxy 1.12.2-2ubuntu1 amd64 Proxy to communicate with MBIM ports
ii libmedia1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to the Android Media HAL
ii libmediaart-2.0-0:amd64 1.9.0-2 amd64 media art extraction and cache management library
ii libmessaging-menu0:amd64 13.10.1+15.10.20150505-0ubuntu1 amd64 Messaging Menu - shared library
ii libmetacity-private3a:amd64 1:3.18.7-0ubuntu0.2 amd64 library for the Metacity window manager
ii libmhash2:amd64 0.9.9.9-7 amd64 Library for cryptographic hashing and message authentication
ii libmimic0:amd64 1.0.4-2.3 amd64 A video codec for Mimic V2.x content
ii libminiupnpc10:amd64 1.9.20140610-2ubuntu2 amd64 UPnP IGD client lightweight library
ii libmirclient9:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - client library
ii libmircommon5:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - shared library
ii libmirprotobuf3:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - RPC definitions
ii libmjpegutils-2.1-0 1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)
ii libmm-glib0:amd64 1.4.12-1ubuntu1 amd64 D-Bus service for managing modems - shared libraries
ii libmms0:amd64 0.6.4-1 amd64 MMS stream protocol library - shared library

ii libmng2:amd64 2.0.2-0ubuntu3 amd64 Multiple-image Network Graphics library
ii libmng2:i386 2.0.2-0ubuntu3 i386 Multiple-image Network Graphics library
ii libmnl0:amd64 1.0.3-5 amd64 minimalistic Netlink communication library
ii libmodplug1:amd64 1:0.8.8.5-2 amd64 shared libraries for mod music based on ModPlug
ii libmono-2.0-dev 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT library - Development files (Default version)
ii libmono-accessibility4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Accessibility library (for CLI 4.0)
ii libmono-c5-1.1-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono C5 library
ii libmono-cairo4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Cairo library (for CLI 4.0)
ii libmono-cecil-private-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Cecil library
ii libmono-cil-dev 4.2.1.102+dfsg2-7ubuntu4 all Mono Base Class Libraries (BCL) - Development files
ii libmono-codecontracts4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CodeContracts library (for CLI 4.0)
ii libmono-compilerservices-symbolwriter4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CompilerServices.SymbolWriter library (for CLI 4.0)
ii libmono-corlib4.5-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono core library (for CLI 4.5)
ii libmono-cscompmgd0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono cscompmgd library (for CLI 4.0)
ii libmono-csharp4.0c-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CSharp library (for CLI 4.0)
ii libmono-custommarshalers4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono CustomMarshalers library (for CLI 4.0)
ii libmono-data-tds4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Data Library (for CLI 4.0)
ii libmono-db2-1.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono DB2 library
ii libmono-debugger-soft4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Soft Debugger library (for CLI 4.0)
ii libmono-http4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Http library (for CLI 4.0)
ii libmono-i18n-cjk4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.CJK library (for CLI 4.0)
ii libmono-i18n-mideast4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.MidEast library (for CLI 4.0)
ii libmono-i18n-other4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.Other library (for CLI 4.0)
ii libmono-i18n-rare4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.Rare library (for CLI 4.0)
ii libmono-i18n-west4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono

I18N.West library (for CLI 4.0)
ii libmono-i18n4.0-all 4.2.1.102+dfsg2-7ubuntu4
all Mono I18N libraries metapackage (for CLI 4.0)
ii libmono-i18n4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N base
library (for CLI 4.0)
ii libmono-ldap4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono LDAP
library (for CLI 4.0)
ii libmono-management4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Management library (for CLI 4.0)
ii libmono-messaging-rabbitmq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Messaging RabbitMQ library (for CLI 4.0)
ii libmono-messaging4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Messaging library (for CLI 4.0)
ii libmono-microsoft-build-engine4.0-cil 4.2.1.102+dfsg2-7ubuntu4
all Mono Microsoft.Build.Engine library (for CLI 4.0)
ii libmono-microsoft-build-framework4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.Build.Framework library (for CLI 4.0)
ii libmono-microsoft-build-tasks-v4.0-4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.Build.Tasks.v4.0 library (for CLI 4.0)
ii libmono-microsoft-build-utilities-v4.0-4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.Build.Utilities.v4.0 library (for CLI 4.0)
ii libmono-microsoft-build4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.Build library (for CLI 4.0)
ii libmono-microsoft-csharp4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.CSharp library (for CLI 4.0)
ii libmono-microsoft-visualc10.0-cil 4.2.1.102+dfsg2-7ubuntu4
all Mono Microsoft.VisualC library (for CLI 4.0)
ii libmono-microsoft-web-infrastructure1.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Microsoft.Web.Infrastructure library (for CLI 4.0)
ii libmono-oracle4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Oracle
library (for CLI 4.0)
ii libmono-parallel4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Parallel
library (for CLI 4.0)
ii libmono-peapi4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono PEAPI
library (for CLI 4.0)
ii libmono-posix4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Posix
library (for CLI 4.0)
ii libmono-rabbitmq4.0-cil 4.2.1.102+dfsg2-7ubuntu4
all Mono RabbitMQ.Client library (for CLI 4.0)
ii libmono-relaxng4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Relaxng
library (for CLI 4.0)
ii libmono-security4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Security
library (for CLI 4.0)
ii libmono-sharpzip4.84-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
SharpZipLib library (for CLI 4.0)
ii libmono-simd4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono SIMD (for
CLI 4.0)
ii libmono-smdiagnostics0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono

SMDiagnostics Library (for CLI 4.0)
ii libmono-sqlite4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Sqlite library (for CLI 4.0)
ii libmono-system-componentmodel-composition4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ComponentModel.Composition library (for CLI 4.0)
ii libmono-system-componentmodel-dataannotations4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ComponentModel.DataAnnotations library (for CLI 4.0)
ii libmono-system-configuration-install4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Configuration.Install library (for CLI 4.0)
ii libmono-system-configuration4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Configuration library (for CLI 4.0)
ii libmono-system-core4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Core library (for CLI 4.0)
ii libmono-system-data-datasetextensions4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.DataSetExtensions library (for CLI 4.0)
ii libmono-system-data-entity4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Entity library (for CLI 4.0)
ii libmono-system-data-linq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Linq Library (for CLI 4.0)
ii libmono-system-data-services-client4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Services.Client library (for CLI 4.0)
ii libmono-system-data-services4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Services library (for CLI 4.0)
ii libmono-system-data4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data library (for CLI 4.0)
ii libmono-system-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Design Library (for CLI 4.0)
ii libmono-system-drawing-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Drawing.Design (for CLI 4.0)
ii libmono-system-drawing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Drawing library (for CLI 4.0)
ii libmono-system-dynamic4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Dynamic library (for CLI 4.0)
ii libmono-system-enterpriseservices4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.EnterpriseServices library (for CLI 4.0)
ii libmono-system-identitymodel-selectors4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IdentityModel.Selectors Library (for CLI 4.0)
ii libmono-system-identitymodel4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IdentityModel Library (for CLI 4.0)
ii libmono-system-io-compression-filesystem4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IO.Compresion.FileSystem library (for CLI 4.0)
ii libmono-system-io-compression4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IO.Compression library (for CLI 4.0)
ii libmono-system-json-microsoft4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Json.Microsoft library (for CLI 4.0)
ii libmono-system-json4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Json library (for CLI 4.0)
ii libmono-system-ldap-protocols4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono

System.DirectoryServices.Protocols library (for CLI 4.0)
ii libmono-system-ldap4.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.DirectoryServices library (for CLI 4.0)
ii libmono-system-management4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Management library (for CLI 4.0)
ii libmono-system-messaging4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Messaging library (for CLI 4.0)
ii libmono-system-net-http-formatting4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http.Formatting library (for CLI 4.0)
ii libmono-system-net-http-webrequest4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http.WebRequest library (for CLI 4.0)
ii libmono-system-net-http4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http
library (for CLI 4.0)
ii libmono-system-net4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net library (for CLI 4.0)
ii libmono-system-numerics4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Numerics library (for CLI 4.0)
ii libmono-system-reactive-core2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Core Library (for CLI 4.5)
ii libmono-system-reactive-debugger2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Debugger Library (for CLI 4.5)
ii libmono-system-reactive-experimental2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Experimental Library (for CLI 4.5)
ii libmono-system-reactive-interfaces2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Interfaces Library (for CLI 4.5)
ii libmono-system-reactive-linq2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Linq Library (for CLI 4.5)
ii libmono-system-reactive-observable-aliases0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Linq Library (for CLI 4.5)
ii libmono-system-reactive-platformservices2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.PlatformServices Library (for CLI 4.5)
ii libmono-system-reactive-providers2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Providers Library (for CLI 4.5)
ii libmono-system-reactive-runtime-remoting2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Runtime.Remoting Library (for CLI 4.5)
ii libmono-system-reactive-windows-forms2.2-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Windows.Forms Library (for CLI 4.5)
ii libmono-system-reactive-windows-threading2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Windows.Threading Library (for CLI 4.5)
ii libmono-system-runtime-caching4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.Caching Library (for CLI 4.0)
ii libmono-system-runtime-durableinstancing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.DurableInstancing Library (for CLI 4.0)
ii libmono-system-runtime-serialization-formatters-soap4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.Serialization.Formatters.Soap Library (for CLI 4.0)
ii libmono-system-runtime-serialization4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono

System.Runtime.Serialization
Library (for CLI 4.0)
ii libmono-system-runtime4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Runtime library (for CLI 4.0)
ii libmono-system-security4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Security library (for CLI 4.0)
ii libmono-system-servicemodel-activation4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceModel.Activation Library (for CLI 4.0)
ii libmono-system-servicemodel-discovery4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceModel.Discovery Library (for CLI 4.0)
ii libmono-system-servicemodel-internals0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceModel.Internals Library (for CLI 4.0)
ii libmono-system-servicemodel-routing4.0-cil 4.2.1.102+dfsg2-7ubuntu4
all Mono System.ServiceModel.Routing Library (for CLI 4.0)
ii libmono-system-servicemodel-web4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceModel.Web Library (for CLI 4.0)
ii libmono-system-servicemodel4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceModel Library (for CLI 4.0)
ii libmono-system-serviceprocess4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.ServiceProcess library (for CLI 4.0)
ii libmono-system-threading-tasks-dataflow4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Threading.Tasks.Dataflow library (for CLI 4.0)
ii libmono-system-transactions4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Transactions library (for CLI 4.0)
ii libmono-system-web-abstractions4.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Abstractions library (for CLI 4.0)
ii libmono-system-web-applicationservices4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.ApplicationServices library (for CLI 4.0)
ii libmono-system-web-dynamicdata4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.DynamicData library (for CLI 4.0)
ii libmono-system-web-extensions-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Extensions.Design library (for CLI 4.0)
ii libmono-system-web-extensions4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Extensions library (for CLI 4.0)
ii libmono-system-web-http-selfhost4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Http.SelfHost library (for CLI 4.0)
ii
libmono-system-web-http-webhost4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Http.WebHost library (for CLI 4.0)
ii libmono-system-web-http4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Http library (for CLI 4.0)
ii libmono-system-web-mvc3.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
ASP.NET MVC 3.0 Library (for CLI 4.0)
ii libmono-system-web-razor2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Razor (for CLI 4.0)
ii libmono-system-web-routing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.Routing (for CLI 4.0)
ii libmono-system-web-services4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono

System.Web.Services (for CLI 4.0)
ii libmono-system-web-webpages-deployment2.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.WebPages.Deployment (for CLI 4.0)
ii libmono-system-web-webpages-razor2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.WebPages.Razor (for CLI 4.0)
ii libmono-system-web-webpages2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web.WebPages (for CLI 4.0)
ii libmono-system-web4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Web library (for CLI 4.0)
ii libmono-system-windows-forms-datavisualization4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all
Mono System.Windows.Forms.DataVisualization Library (for CLI 4.0)
ii libmono-system-windows-forms4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Windows.Forms Library
(for CLI 4.0)
ii libmono-system-windows4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Windows library (for CLI 4.0)
ii libmono-system-xaml4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Xaml Library (for CLI 4.0)
ii libmono-system-xml-linq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Xml.Linq library (for CLI 4.0)
ii libmono-system-xml-serialization4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Xml.Serialization library (for CLI 4.0)
ii libmono-system-xml4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
System.Xml library (for CLI 4.0)
ii libmono-system4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System
libraries (for CLI 4.0)
ii
libmono-tasklets4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Tasklets
library (for CLI 4.0)
ii libmono-webbrowser4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Web
Browser library (for CLI 4.0)
ii libmono-webmatrix-data4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
WebMatrix.Data Library (for CLI 4.0)
ii libmono-windowsbase4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
WindowsBase library (for CLI 4.0)
ii libmono-xbuild-tasks4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono
Mono.XBuild.Tasks library (for CLI 4.0)
ii libmonoboehm-2.0-1 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT
library (Boehm GC)
ii libmonoboehm-2.0-dev
4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT library - Development files
(Boehm GC)
ii libmount1:amd64 2.27.1-6ubuntu3.2 amd64 device mounting
library
ii libmp3lame0:amd64 3.99.5+repack1-9build1 amd64 MP3 encoding
library
ii libmpc3:amd64 1.0.3-1 amd64 multiple precision
complex floating-point library

ii libmpdec2:amd64 2.4.2-1 amd64 library for decimal floating point arithmetic (runtime library)
ii libmpeg2-4:amd64 0.5.1-7 amd64 MPEG1 and MPEG2 video decoder library
ii libmpeg2encpp-2.1-0 1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)
ii libmpfr4:amd64 3.1.4-1 amd64 multiple precision floating-point computation
ii libmpg123-0:amd64 1.22.4-1 amd64 MPEG layer 1/2/3 audio decoder (shared library)
ii libmplex2-2.1-0 1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)
ii libmpx0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Intel memory protection extensions (runtime)
ii libmspub-0.1-1:amd64 0.1.2-2ubuntu1 amd64 library for parsing the mspub file structure
ii libmtdev1:amd64 1.1.5-1ubuntu2 amd64 Multitouch Protocol Translation Library - shared library
ii libmtp-common 1.1.10-2ubuntu1 all Media Transfer Protocol (MTP) common files
ii libmtp-runtime 1.1.10-2ubuntu1 amd64 Media Transfer Protocol (MTP) runtime tools
ii libmtp9:amd64 1.1.10-2ubuntu1 amd64 Media Transfer Protocol (MTP) library
ii libmwaw-0.3-3:amd64 0.3.7-1ubuntu2 amd64 import library for some old Mac text documents
ii libmysqlclient20:i386 5.7.17-0ubuntu0.16.04.1 i386 MySQL database client library
ii libmythes-1.2-0:amd64 2:1.2.4-1ubuntu3 amd64 simple thesaurus library
ii libnatpmp1:amd64 20110808-4 amd64 portable and fully compliant implementation of NAT-PMP
ii libnautilus-extension1a:amd64 1:3.18.4.is.3.14.3-0ubuntu5 amd64 libraries for nautilus components - runtime version
ii libnb-org-openide-util-java 8.1+dfsg1-2 all Utility classes from the NetBeans Platform
ii libnb-org-openide-util-lookup-java 8.1+dfsg1-2 all Utility lookup classes from the NetBeans Platform
ii libncurses5:amd64 6.0+20160213-1ubuntu1 amd64 shared libraries for terminal handling
ii libncurses5:i386 6.0+20160213-1ubuntu1 i386 shared libraries for terminal handling
ii libncurses5-dev:amd64 6.0+20160213-1ubuntu1 amd64 developer's libraries for ncurses

ii libncursesw5:amd64 6.0+20160213-1ubuntu1 amd64 shared libraries for terminal handling (wide character support)
ii libncursesw5:i386 6.0+20160213-1ubuntu1 i386 shared libraries for terminal handling (wide character support)
ii libndp0:amd64 1.4-2ubuntu0.16.04.1 amd64 Library for Neighbor Discovery Protocol
ii libneon27-gnutls:amd64 0.30.1-3build1 amd64 HTTP and WebDAV client
library (GnuTLS enabled)
ii libnet-dbus-perl 1.1.0-3build1 amd64 Perl extension for the DBus bindings
ii libnet-dns-perl 0.81-2build1 amd64 Perform DNS queries from a Perl script
ii libnet-domain-tld-perl 1.73-1 all list of currently available Top-level Domains (TLDs)
ii libnet-http-perl 6.09-1 all module providing low-level HTTP connection client
ii libnet-ip-perl 1.26-1 all Perl extension for manipulating IPv4/IPv6 addresses
ii libnet-libidn-perl 0.12.ds-2build2 amd64 Perl
bindings for GNU Libidn
ii libnet-smtp-ssl-perl 1.03-1 all Perl module providing SSL support to Net::SMTP
ii libnet-ssleay-perl 1.72-1build1 amd64 Perl module for Secure Sockets Layer (SSL)
ii libnetfilter-conntrack3:amd64 1.0.5-1 amd64 Netfilter netlink-conntrack library
ii libnetpbm10 2:10.0-15.3 amd64 Graphics conversion tools shared libraries
ii libnettle6:amd64 3.2-1ubuntu0.16.04.1 amd64 low level cryptographic library (symmetric and one-way cryptos)
ii libnettle6:i386 3.2-1ubuntu0.16.04.1 i386 low
level cryptographic library (symmetric and one-way cryptos)
ii libnewt0.52:amd64 0.52.18-1ubuntu2 amd64 Not Erik's Windowing Toolkit - text mode windowing with slang
ii libnfnetlink0:amd64 1.0.1-3 amd64 Netfilter netlink library
ii libnih-dbus1:amd64 1.0.3-4.3ubuntu1 amd64 NIH D-Bus Bindings Library
ii libnih1:amd64 1.0.3-4.3ubuntu1 amd64 NIH Utility Library
ii libnl-3-200:amd64 3.2.27-1 amd64 library for dealing with netlink sockets
ii libnl-genl-3-200:amd64 3.2.27-1 amd64 library for dealing with
netlink sockets - generic netlink
ii libnm-glib-vpn1:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (GLib VPN shared library)
ii libnm-glib4:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (GLib shared library)

ii libnm-gtk-common 1.2.0-0ubuntu0.16.04.4 all library for wireless and mobile dialogs - common files
ii libnm-gtk0:amd64 1.2.0-0ubuntu0.16.04.4 amd64 library for wireless and mobile dialogs (libnm-glib version)
ii libnm-util2:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (shared library)
ii libnm0:amd64 1.2.2-0ubuntu0.16.04.3 amd64 GObject-based client library for NetworkManager
ii libnma-common 1.2.0-0ubuntu0.16.04.4 all library for wireless and mobile dialogs - common files
ii libnma0:amd64 1.2.0-0ubuntu0.16.04.4 amd64 library for wireless and mobile dialogs (libnm version)
ii libnotify-bin 0.7.6-2svn1 amd64 sends desktop notifications to a notification daemon (Utilities)
ii libnotify4:amd64 0.7.6-2svn1 amd64 sends desktop notifications to a notification daemon
ii libnpth0:amd64 1.2-3 amd64 replacement for GNU Pth using system threads
ii libnspr4:amd64 2:4.12-0ubuntu0.16.04.1 amd64 NetScape Portable Runtime Library
ii libnss-mdns:amd64 0.10-7 amd64 NSS module for Multicast DNS name resolution
ii libnss3:amd64 2:3.26.2-0ubuntu0.16.04.2 amd64 Network Security Service libraries
ii libnss3-1d:amd64 2:3.26.2-0ubuntu0.16.04.2 amd64 Network Security Service libraries - transitional package
ii libnss3-nssdb 2:3.26.2-0ubuntu0.16.04.2 all Network Security Security libraries - shared databases
ii libnuma1:amd64 2.0.11-1ubuntu1 amd64 Libraries for controlling NUMA policy
ii libnunit-cil-dev 2.6.4+dfsg-1 all Unit test framework for CLI - Development files
ii libnunit-console-runner2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-core-interfaces2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-core2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-framework2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-mocks2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-util2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnux-4.0-0 4.0.8+16.04.20160705-0ubuntu1 amd64 Visual rendering toolkit for real-time applications - shared lib
ii libnux-4.0-common 4.0.8+16.04.20160705-0ubuntu1 all Visual

rendering toolkit for real-time applications - common files
ii liboauth0:amd64 1.0.3-0ubuntu2 amd64 C library for implementing OAuth 1.0
ii libobjc-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Objective-C applications (development files)
ii libobjc4:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Objective-C applications
ii libobjenesis-java 2.2-1 all Java library to instantiate a new object of a particular class
ii libodfgen-0.1-1 0.1.6-1ubuntu2 amd64 library to generate ODF documents
ii libofa0:amd64 0.9.3-10ubuntu1 amd64 library for acoustic fingerprinting
ii libogg0:amd64 1.3.2-1 amd64 Ogg bitstream library
ii libogg0:i386 1.3.2-1 i386 Ogg bitstream library
ii libopenal-data 1:1.16.0-3 all Software implementation of the OpenAL audio API (data files)
ii libopenal1:amd64 1:1.16.0-3 amd64 Software implementation of the OpenAL audio API (shared library)
ii libopencore-amrnb0:amd64 0.1.3-2.1 amd64 Adaptive Multi Rate speech codec - shared library
ii libopencore-amrwb0:amd64 0.1.3-2.1 amd64 Adaptive Multi-Rate - Wideband speech codec - shared library
ii libopencv-calib3d-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-calib3d
ii libopencv-calib3d2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Camera Calibration library
ii libopencv-contrib-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-contrib
ii libopencv-contrib2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision contrib library
ii libopencv-core-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-core
ii libopencv-core2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision core library
ii libopencv-dev 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for opencv
ii libopencv-features2d-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-features2d
ii libopencv-features2d2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Feature Detection and Descriptor Extraction library
ii libopencv-flann-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-flann
ii libopencv-flann2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Clustering and Search in Multi-Dimensional spaces library
ii libopencv-gpu-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development

files for libopencv-gpu2.4v5
ii libopencv-gpu2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision GPU library
ii libopencv-highgui-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-highgui
ii libopencv-highgui2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision
High-level GUI and Media I/O library
ii libopencv-imgproc-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-imgproc
ii libopencv-imgproc2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Image Processing library
ii libopencv-legacy-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-legacy
ii libopencv-legacy2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision legacy library
ii libopencv-ml-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ml
ii libopencv-ml2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Machine Learning library
ii
libopencv-objdetect-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-objdetect
ii libopencv-objdetect2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Object Detection library
ii libopencv-ocl-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ocl2.4v5
ii libopencv-ocl2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision OpenCL support library
ii libopencv-photo-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-photo2.4v5
ii libopencv-photo2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision computational photography library
ii
libopencv-stitching-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-stitching2.4v5
ii libopencv-stitching2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision image stitching library
ii libopencv-superres-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-superres2.4v5
ii libopencv-superres2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Super Resolution library
ii libopencv-ts-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ts2.4v5
ii libopencv-ts2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision ts library
ii libopencv-video-dev:amd64

2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-video
ii libopencv-video2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Video analysis library
ii libopencv-videostab-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-videostab2.4v5
ii libopencv-videostab2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision video stabilization library
ii libopencv2.4-java 2.4.9.1+dfsg-1.5ubuntu1 all Java bindings for the computer vision library
ii libopencv2.4-jni 2.4.9.1+dfsg-1.5ubuntu1 amd64 Java jni library for the computer vision library
ii libopenexr-dev 2.2.0-10ubuntu2 amd64 development files for the OpenEXR image library
ii libopenexr22:amd64 2.2.0-10ubuntu2 amd64 runtime files for the OpenEXR image library
ii libopenjpeg5:amd64 1:1.5.2-3.1 amd64 JPEG 2000 image compression/decompression library - runtime
ii libopus0:amd64 1.1.2-1ubuntu1 amd64 Opus codec runtime library
ii libopus0:i386 1.1.2-1ubuntu1 i386 Opus codec runtime library
ii liborc-0.4-0:amd64 1:0.4.25-1 amd64 Library of Optimized Inner Loops Runtime Compiler
ii liborc-0.4-0:i386 1:0.4.25-1 i386 Library of Optimized Inner Loops Runtime Compiler
ii liborcus-0.10-0v5:amd64 0.9.2-4ubuntu2 amd64 library for processing spreadsheet documents
ii libosmesa6:amd64 11.2.0-1ubuntu2.2 amd64 Mesa Off-screen rendering extension
ii liboxideqt-qmlplugin:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (QML plugin)
ii liboxideqtcore0:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (core library and components)
ii liboxideqtquick0:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (QtQuick library)
ii libp11-kit-gnome-keyring:amd64 3.18.3-0ubuntu2 amd64 GNOME keyring module for the PKCS#11 module loading library
ii libp11-kit0:amd64 0.23.2-5~ubuntu16.04.1 amd64 library for loading and coordinating access to PKCS#11 modules - runtime
ii libp11-kit0:i386 0.23.2-5~ubuntu16.04.1 i386 library for loading and coordinating access to PKCS#11 modules - runtime
ii libpackagekit-glib2-16:amd64 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 amd64 Library for accessing PackageKit using GLib
ii libpagemaker-0.0-0:amd64 0.0.3-1ubuntu1 amd64 Library for importing and converting PageMaker Documents

ii libpam-gnome-keyring:amd64 3.18.3-0ubuntu2 amd64 PAM module to unlock the GNOME keyring upon login
ii libpam-modules:amd64 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules for PAM
ii libpam-modules-bin 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules for PAM - helper binaries
ii libpam-runtime 1.1.8-3.2ubuntu2 all Runtime support for the PAM library
ii libpam-systemd:amd64 229-4ubuntu16 amd64 system and service manager - PAM module
ii libpam0g:amd64 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules library
ii libpango-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpango-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpango1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text (transitional package)
ii libpango1.0-dev 1.38.1-1 amd64 Development files for the Pango
ii libpangocairo-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpangocairo-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpangoft2-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpangoft2-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpangomm-1.4-1v5:amd64 2.38.1-1 amd64 C++ Wrapper for pango (shared libraries)
ii libpangox-1.0-0:amd64 0.0.2-5 amd64 pango library X backend
ii libpangoxft-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpaper-utils 1.1.24+nmu4ubuntu1 amd64 library for handling paper characteristics (utilities)
ii libpaper1:amd64 1.1.24+nmu4ubuntu1 amd64 library for handling paper characteristics
ii libparse-debianchangelog-perl 1.2.0-8 all parse Debian changelogs and output them in other formats
ii libparted2:amd64 3.2-15 amd64 disk partition manipulator - shared library
ii libpathplan4 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - pathplan library
ii libpcap0.8:amd64 1.7.4-2 amd64 system interface for user-level packet capture
ii libpci3:amd64 1:3.3.1-1.1ubuntu1 amd64 Linux PCI Utilities (shared library)

ii libpciaccess0:amd64
0.13.4-1 amd64 Generic PCI access library for X
ii libpciaccess0:i386 0.13.4-1 i386 Generic PCI access library
for X
ii libpcre16-3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible
Regular Expression Library - 16 bit runtime files
ii libpcre3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible
Regular Expression Library - runtime files
ii libpcre3:i386 2:8.38-3.1 i386 Perl 5 Compatible Regular
Expression Library - runtime files
ii libpcre3-dev:amd64 2:8.38-3.1 amd64 Perl 5 Compatible
Regular Expression Library - development
files
ii libpcre32-3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible
Regular Expression Library - 32 bit runtime files
ii libpcrecpp0v5:amd64 2:8.38-3.1 amd64 Perl 5 Compatible
Regular Expression Library - C++ runtime files
ii libpcsclite1:amd64 1.8.14-1ubuntu1.16.04.1 amd64 Middleware to
access a smart card using PC/SC (library)
ii libpeas-1.0-0:amd64 1.16.0-1ubuntu2 amd64 Application plugin
library
ii libpeas-1.0-0-python3loader 1.16.0-1ubuntu2 amd64 Application
plugin library
ii libpeas-common 1.16.0-1ubuntu2 all Application
plugin library (common files)
ii libperl5.22:amd64 5.22.1-9 amd64 shared Perl library
ii libperlio-gzip-perl 0.19-1build1 amd64 module providing a
PerlIO layer to gzip/gunzip
ii libpipeline1:amd64 1.4.1-2 amd64 pipeline manipulation
library
ii libpixman-1-0:amd64 0.33.6-1 amd64 pixel-manipulation
library for X and cairo
ii libpixman-1-0:i386 0.33.6-1 i386 pixel-manipulation library
for X and cairo
ii libpixman-1-dev 0.33.6-1 amd64 pixel-manipulation
library for X and cairo (development
files)
ii libplexus-ant-factory-java 1.0~alpha2.1-3 all Plexus Ant Factory
ii libplexus-archiver-java 2.2-1 all Archiver plugin for the
Plexus compiler system
ii libplexus-bsh-factory-java 1.0~alpha7-3.1 all Plexus Beanshell
Factory
ii libplexus-cipher-java 1.7-1 all Plexus Cipher Component
used by Maven
ii libplexus-classworlds-java 1.5.0-5 all Class loading utilities for
the Plexus framework
ii libplexus-classworlds2-java 2.5.2-1 all Class loading utilities for
the Plexus framework

ii libplexus-cli-java
1.2-5 all Easily create CLIs with Plexus components
ii libplexus-component-annotations-java 1.6-2 all Plexus Component Annotations
ii libplexus-component-metadata-java 1.6-2 all Component Metadata Maven plugin for Plexus
ii libplexus-container-default-java 1.0-alpha-9-stable-1-7 all utilities for the Plexus framework
ii libplexus-container-default1.5-java 1.6-2 all Plexus Inversion-of-control Container
ii libplexus-containers-java 1.0~beta3.0.7-8 all utilities for the Plexus framework
ii libplexus-containers1.5-java
1.6-2 all Plexus IoC Container core with companion tools
ii libplexus-interactivity-api-java 1.0-alpha-6-7 all interactivity API for the Plexus framework
ii libplexus-interpolation-java 1.21-1 all Plexus Interpolation API
ii libplexus-io-java 1.0~alpha5-2 all Plexus IO Components
ii libplexus-sec-dispatcher-java 1.3.1-6 all Plexus Security Dispatcher Component used by Maven
ii libplexus-utils-java 1:1.5.15-4 all utilities for the Plexus framework
ii libplexus-utils2-java 3.0.22-1
all utilities for the Plexus framework
ii libplist3:amd64 1.12-3.1 amd64 Library for handling Apple binary and XML property lists
ii libplymouth4:amd64 0.9.2-3ubuntu13.1 amd64 graphical boot animation and logger - shared libraries
ii libpng12-0:amd64 1.2.54-1ubuntu1 amd64 PNG library - runtime
ii libpng12-0:i386 1.2.54-1ubuntu1 i386 PNG library - runtime
ii libpng12-dev:amd64 1.2.54-1ubuntu1 amd64 PNG library - development
ii libpolkit-agent-1-0:amd64 0.105-14.1 amd64 PolicyKit Authentication
Agent API
ii libpolkit-backend-1-0:amd64 0.105-14.1 amd64 PolicyKit backend API
ii libpolkit-gobject-1-0:amd64 0.105-14.1 amd64 PolicyKit Authorization API
ii libpoppler-glib8:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering library (GLib-based shared library)
ii libpoppler-qt5-1:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering library (Qt 5 based shared library)
ii libpoppler58:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering library
ii libpopt0:amd64 1.16-10 amd64 lib for parsing cmdline parameters

ii libportaudio2:amd64
19+svn20140130-1build1 amd64 Portable audio I/O - shared library
ii libpostproc-ffmpeg53:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg
library for post processing - runtime files
ii libpotrace0 1.13-2 amd64 library for tracing bitmaps
ii libpq5:amd64 9.6.1-2.pgdg16.04+1 amd64 PostgreSQL C client
library
ii libprocps4:amd64 2:3.3.10-4ubuntu2.3 amd64 library for
accessing process information from /proc
ii libprotobuf-lite9v5:amd64 2.6.1-1.3 amd64 protocol buffers C++
library (lite version)
ii libprotobuf9v5:amd64
2.6.1-1.3 amd64 protocol buffers C++ library
ii libproxy1-plugin-gsettings:amd64 0.4.11-5ubuntu1 amd64 automatic
proxy configuration management library (GSettings plugin)
ii libproxy1-plugin-gsettings:i386 0.4.11-5ubuntu1 i386 automatic proxy
configuration management library (GSettings plugin)
ii libproxy1-plugin-networkmanager:amd64 0.4.11-5ubuntu1 amd64 automatic
proxy configuration management library (Network Manager plugin)
ii libproxy1-plugin-webkit:i386 0.4.11-5ubuntu1 i386 automatic proxy
configuration management library (Webkit plugin)
ii libproxy1v5:amd64 0.4.11-5ubuntu1 amd64 automatic proxy
configuration
management library (shared)
ii libproxy1v5:i386 0.4.11-5ubuntu1 i386 automatic proxy
configuration management library (shared)
ii libptexenc1:amd64 2015.20160222.37495-1 amd64 TeX Live:
pTeX encoding library
ii libpthread-stubs0-dev:amd64 0.3-4 amd64 pthread stubs not
provided by native libc, development files
ii libpulse-mainloop-glib0:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio
client libraries (glib support)
ii libpulse0:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio client
libraries
ii libpulse0:i386 1:8.0-0ubuntu3.2 i386 PulseAudio
client libraries
ii libpulsedsp:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio OSS
pre-load library
ii libpwquality-common 1.3.0-0ubuntu1 all library for password
quality checking and generation (data files)
ii libpwquality1:amd64 1.3.0-0ubuntu1 amd64 library for
password quality checking and generation
ii libpython-all-dev:amd64 2.7.11-1 amd64 package depending on
all supported Python development packages
ii libpython-dev:amd64 2.7.11-1 amd64 header files and a
static library for Python (default)
ii libpython-stdlib:amd64 2.7.11-1

amd64 interactive high-level object-oriented language (default python version)
ii libpython2.7:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Shared Python runtime library (version 2.7)
ii libpython2.7-dev:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Header files and a static library for Python (v2.7)
ii libpython2.7-minimal:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 2.7)
ii libpython2.7-stdlib:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (standard library, version 2.7)
ii libpython3-stdlib:amd64 3.5.1-3 amd64 interactive high-level object-oriented language (default
python3 version)
ii libpython3.5:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Shared Python runtime library (version 3.5)
ii libpython3.5-minimal:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 3.5)
ii libpython3.5-stdlib:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (standard library, version 3.5)
ii libqdox2-java 2.0~M3-2 all quickly parses declarations and Javadoc from Java source
ii libqmi-glib1:amd64 1.12.6-1 amd64 Support library to use the Qualcomm MSM Interface (QMI) protocol
ii libqmi-proxy
1.12.6-1 amd64 Proxy to communicate with QMI ports
ii libqpdf17:amd64 6.0.0-2 amd64 runtime library for PDF transformation/inspection software
ii libqqwing2v5:amd64 1.3.4-1 amd64 tool for generating and solving Sudoku puzzles (library)
ii libqt4-dbus:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus module
ii libqt4-dbus:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 D-Bus module
ii libqt4-declarative:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 Declarative module
ii libqt4-declarative:i386 4:4.8.7+dfsg-5ubuntu2 i386
Qt 4 Declarative module
ii libqt4-network:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 network module
ii libqt4-network:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 network module
ii libqt4-opengl:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 OpenGL module
ii libqt4-script:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 script module
ii libqt4-script:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 script module
ii libqt4-sql:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 SQL module
ii libqt4-sql:i386 4:4.8.7+dfsg-5ubuntu2 i386
Qt 4 SQL module
ii libqt4-sql-mysql:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 MySQL

database driver
ii libqt4-sql-sqlite:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 SQLite 3 database driver
ii libqt4-xml:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 XML module
ii libqt4-xml:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 XML module
ii libqt4-xmlpatterns:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 XML patterns module
ii libqt4-xmlpatterns:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 XML patterns module
ii libqt5core5a:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 core module
ii libqt5dbus5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 D-Bus module
ii libqt5feedback5:amd64 5.0~git20130529-0ubuntu13 amd64 Qt Feedback module
ii libqt5gui5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 GUI module
ii libqt5multimedia5:amd64 5.5.1-4ubuntu2 amd64 Qt 5 Multimedia module
ii libqt5network5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 network module
ii libqt5opengl5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 OpenGL module
ii libqt5organizer5:amd64 5.0~git20140515~29475884-0ubuntu20 amd64 Qt PIM module, Organizer library
ii libqt5positioning5:amd64 5.5.1-3ubuntu1 amd64 Qt Positioning module
ii libqt5printsupport5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 print support module
ii libqt5qml5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 QML module
ii libqt5quick5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Quick library
ii libqt5quicktest5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Quick Test library
ii libqt5script5:amd64 5.5.1+dfsg-2build1 amd64 Qt 5 script module
ii libqt5sql5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 SQL module
ii libqt5sql5-sqlite:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 SQLite 3 database driver
ii libqt5svg5:amd64 5.5.1-2build1 amd64 Qt 5 SVG module
ii libqt5test5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 test module
ii libqt5webkit5:amd64 5.5.1+dfsg-2ubuntu1 amd64 Web content engine library for Qt
ii libqt5widgets5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 widgets module
ii libqt5x11extras5:amd64 5.5.1-3build1 amd64 Qt 5 X11 extras
ii libqt5xml5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 XML module
ii libqtcore4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 core module

ii libqtcore4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 core module
ii libqtdbus4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus module library
ii libqtdbus4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 D-Bus module library
ii libqtgui4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 GUI module
ii libqtgui4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 GUI module
ii libqtwebkit4:i386 2.3.2-0ubuntu11 i386 Web content engine library for Qt
ii libquadmath0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC Quad-Precision Math Library
ii libquvi-scripts 0.4.21-2 all library for parsing video download links (Lua scripts)
ii libquvi7:amd64 0.4.1-3 amd64 library for parsing video download links (runtime libraries)
ii libraptor2-0:amd64 2.0.14-1 amd64 Raptor 2 RDF syntax library
ii librasqal3:amd64 0.9.32-1 amd64 Rasqal RDF query library
ii libraw1394-11:amd64 2.1.1-2 amd64 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw1394-11:i386 2.1.1-2 i386 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw1394-dev:amd64 2.1.1-2 amd64 library for direct access to IEEE 1394 bus - development files
ii libraw1394-tools 2.1.1-2 amd64 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw15:amd64 0.17.1-1 amd64 raw image decoder library
ii librdf0:amd64 1.0.17-1build1 amd64 Redland Resource Description Framework (RDF) library
ii libreadline6:amd64 6.3-8ubuntu2 amd64 GNU readline and history libraries, run-time libraries
ii librecode0:amd64 3.6-22 amd64 Shared library on which recode is based
ii libregexp-common-perl 2016020301-1 all module with common regular expressions
ii libreoffice-avmedia-backend-gstreamer 1:5.1.4-0ubuntu1 amd64 GStreamer backend for LibreOffice
ii libreoffice-base-core 1:5.1.4-0ubuntu1 amd64 office productivity suite -- shared library
ii libreoffice-calc 1:5.1.4-0ubuntu1 amd64 office productivity suite -- spreadsheet
ii libreoffice-common 1:5.1.4-0ubuntu1 all office productivity suite -- arch-independent files
ii libreoffice-core 1:5.1.4-0ubuntu1 amd64 office productivity suite -- arch-dependent files
ii libreoffice-draw 1:5.1.4-0ubuntu1 amd64 office productivity

suite -- drawing
ii libreoffice-gnome 1:5.1.4-0ubuntu1 amd64 office productivity suite -- GNOME integration
ii libreoffice-gtk 1:5.1.4-0ubuntu1 amd64 office productivity suite -- GTK+ integration
ii libreoffice-help-en-gb 1:5.1.4-0ubuntu1 all office productivity suite -- English_british help
ii libreoffice-help-en-us 1:5.1.4-0ubuntu1 all office productivity suite -- English_american help
ii libreoffice-help-it 1:5.1.4-0ubuntu1 all office productivity suite -- Italian help
ii libreoffice-impress 1:5.1.4-0ubuntu1 amd64 office productivity suite -- presentation
ii libreoffice-l10n-en-gb 1:5.1.4-0ubuntu1 all office productivity suite -- English_british language package
ii libreoffice-l10n-en-za 1:5.1.4-0ubuntu1 all office productivity suite -- English_southafrican language package
ii libreoffice-l10n-it 1:5.1.4-0ubuntu1 all office productivity suite -- Italian language package
ii libreoffice-math 1:5.1.4-0ubuntu1 amd64 office productivity suite -- equation editor
ii libreoffice-ogltrans 1:5.1.4-0ubuntu1 amd64 LibreOffice Impress extension for slide transitions using OpenGL
ii libreoffice-pdfimport 1:5.1.4-0ubuntu1 amd64 PDF Import component for LibreOffice
ii libreoffice-style-breeze 1:5.1.4-0ubuntu1 all office productivity suite -- Breeze symbol style
ii libreoffice-style-galaxy 1:5.1.4-0ubuntu1 all office productivity suite -- Galaxy (Default) symbol style
ii libreoffice-writer 1:5.1.4-0ubuntu1 amd64 office productivity suite -- word processor
ii librest-0.7-0:amd64 0.7.93-1 amd64 REST service access library
ii librevenge-0.0-0:amd64 0.0.4-4ubuntu1 amd64 Base Library for writing document interface filters
ii librhino-java 1.7R4-3 all Libraries for rhino Java Script Engine
ii librhythmbox-core9:amd64 3.3-1ubuntu7 amd64 support library for the rhythmbox music player
ii libroken18-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - roken support library
ii librsvg2-2:amd64 2.40.13-3 amd64 SAX-based renderer library for SVG files (runtime)
ii librsvg2-common:amd64 2.40.13-3 amd64 SAX-based renderer library for SVG files (extra runtime)
ii librsync1:amd64 0.9.7-10 amd64 rsync remote-delta algorithm library

ii librtmp1:amd64 2.4+20151223.gitfa8646d-1build1 amd64 toolkit for RTMP streams (shared library)
ii libruby2.3:amd64 2.3.1-2~16.04 amd64 Libraries necessary to run Ruby 2.3
ii libsamplerate0:amd64 0.1.8-8 amd64 Audio sample rate conversion library
ii libsamplerate0:i386 0.1.8-8 i386 Audio sample rate conversion library
ii libsane:amd64 1.0.26-git20160712-xenial0 amd64 API library for scanners
ii libsane-common 1.0.26-git20160712-xenial0 amd64 API library for scanners -- documentation and support files
ii libsane-hpaio:amd64 3.16.3+repack0-1 amd64 HP SANE backend for multi-function peripherals
ii libsasl2-2:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - authentication abstraction library
ii libsasl2-modules:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - pluggable authentication modules
ii libsasl2-modules-db:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - pluggable authentication modules (DB)
ii libsbc1:amd64 1.3-1 amd64 Sub Band CODEC library - runtime
ii libschroedinger-1.0-0:amd64 1.0.11-2.1build1 amd64 library for encoding/decoding of Dirac video streams
ii libsdl1.2debian:amd64 1.2.15+dfsg1-3 amd64 Simple DirectMedia Layer
ii libseccomp2:amd64 2.2.3-3ubuntu3 amd64 high level interface to Linux seccomp filter
ii libsecret-1-0:amd64 0.18.4-1ubuntu2 amd64 Secret store
ii libsecret-1-0:i386 0.18.4-1ubuntu2 i386 Secret store
ii libsecret-common 0.18.4-1ubuntu2 all Secret store (common files)
ii libselinux1:amd64 2.4-3build2 amd64 SELinux runtime shared libraries
ii libselinux1:i386 2.4-3build2 i386 SELinux runtime shared libraries
ii libsemanage-common 2.3-1build3 all Common files for SELinux policy management libraries
ii libsemanage1:amd64 2.3-1build3 amd64 SELinux policy management library
ii libsensors4:amd64 1:3.4.0-2 amd64 library to read temperature/voltage/fan sensors
ii libsepol1:amd64 2.4-2 amd64 SELinux library for manipulating binary security policies
ii libservlet2.5-java 6.0.45+dfsg-1 all Servlet 2.5 and JSP 2.1 Java API classes
ii libservlet3.1-java 8.0.32-1ubuntu1.3 all Servlet 3.1, JSP 2.3, EL 3.0 and WebSocket 1.0 Java API classes

ii libsgutils2-2 1.40-0ubuntu1 amd64 utilities for devices using the SCSI command set (shared libraries)
ii libshine3:amd64 3.1.0-4 amd64 Fixed-point MP3 encoding library - runtime files
ii libshout3:amd64 2.3.1-3 amd64 MP3/Ogg Vorbis broadcast streaming library
ii libshout3:i386 2.3.1-3 i386 MP3/Ogg Vorbis broadcast streaming library
ii libsidplay1v5 1.36.59-8 amd64 SID (MOS 6581) emulation library
ii libsigc++-2.0-0v5:amd64 2.6.2-1 amd64 type-safe Signal Framework for C++ - runtime
ii libsignon-extension1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii libsignon-glib1:amd64 1.13+16.04.20151209.1-0ubuntu1 amd64 library for signond
ii libsignon-plugins-common1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii libsignon-qt5-1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii libsigsegv2:amd64 2.10-4 amd64 Library for handling page faults in a portable way
ii libsisu-inject-java 0.3.2-1 all Dependency Injection container for Java
ii libsisu-plexus-java 0.3.2-1 all Plexus adapter for the Sisu dependency injection container
ii libslang2:amd64 2.3.0-2ubuntu1 amd64 S-Lang programming library - runtime version
ii libslang2:i386 2.3.0-2ubuntu1 i386 S-Lang programming library - runtime version
ii libslf4j-java 1.7.14-3 all Simple Logging Facade for Java
ii libsm-dev:amd64 2:1.2.2-1 amd64 X11 Session Management library (development headers)
ii libsm6:amd64 2:1.2.2-1 amd64 X11 Session Management library
ii libsm6:i386 2:1.2.2-1 i386 X11 Session Management library
ii libsmartcols1:amd64 2.27.1-6ubuntu3.2 amd64 smart column output alignment library
ii libsmbclient:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 shared library for communication with SMB/CIFS servers
ii libsnapd-glib1:amd64 1.2-0ubuntu1.1~xenial amd64 GLib snapd library
ii libsnappy1v5:amd64 1.1.3-2 amd64 fast compression/decompression library
ii libsndfile1:amd64 1.0.25-10 amd64 Library for reading/writing audio files

ii libsndfile1:i386 1.0.25-10 i386 Library for reading/writing audio files
ii libsnmp-base 5.7.3+dfsg-1ubuntu4 all SNMP configuration script, MIBs and documentation
ii libsnmp30:amd64 5.7.3+dfsg-1ubuntu4 amd64 SNMP (Simple Network Management Protocol) library
ii libsocket6-perl 0.25-1build2 amd64 Perl extensions for IPv6
ii libsodium18:amd64 1.0.8-5 amd64 Network communication, cryptography and signaturing library
ii libsonic0:amd64 0.2.0-3 amd64 Simple library to speed up or slow down speech
ii libsoundtouch1:amd64 1.9.2-2 amd64 Sound stretching library
ii libsoup-gnome2.4-1:amd64 2.52.2-1ubuntu0.1 amd64 HTTP library implementation in C -- GNOME support library
ii libsoup2.4-1:amd64 2.52.2-1ubuntu0.1 amd64 HTTP library implementation in C -- Shared library
ii libsoup2.4-1:i386 2.52.2-1ubuntu0.1 i386 HTTP library implementation in C -- Shared library
ii libsoxr0:amd64 0.1.2-1 amd64 High quality 1D sample-rate conversion library
ii libspandsp2:amd64 0.0.6-2.1 amd64 Telephony signal processing library
ii libspectre1:amd64 0.2.7-3ubuntu2 amd64 Library for rendering PostScript documents
ii libspeechd2:amd64 0.8.3-1ubuntu3 amd64 Speech Dispatcher: Shared libraries
ii libspeex1:amd64 1.2~rc1.2-1ubuntu1 amd64 The Speex codec runtime library
ii libspeex1:i386 1.2~rc1.2-1ubuntu1 i386 The Speex codec runtime library
ii libspeexdsp1:amd64 1.2~rc1.2-1ubuntu1 amd64 The Speex extended runtime library
ii libspeexdsp1:i386 1.2~rc1.2-1ubuntu1 i386 The Speex extended runtime library
ii libsqlite3-0:amd64 3.11.0-1ubuntu1 amd64 SQLite 3 shared library
ii libsqlite3-0:i386 3.11.0-1ubuntu1 i386 SQLite 3 shared library
ii libsrtp0 1.4.5~20130609~dfsg-1.1ubuntu1 amd64 Secure RTP (SRTP) and UST Reference Implementations - shared library
ii libss2:amd64 1.42.13-1ubuntu1 amd64 command-line interface parsing library
ii libssh-4:amd64 0.6.3-4.3 amd64 tiny C SSH library (OpenSSL flavor)
ii libssh-gcrypt-4:amd64 0.6.3-4.3 amd64 tiny C SSH library (gcrypt flavor)
ii libssl-dev:amd64 1.0.2g-1ubuntu4.6 amd64 Secure Sockets

Layer toolkit - development files
ii libssl-doc 1.0.2g-1ubuntu4.6 all Secure Sockets Layer toolkit - development documentation
ii libssl1.0.0:amd64 1.0.2g-1ubuntu4.6 amd64 Secure Sockets Layer toolkit - shared libraries
ii libssl1.0.0:i386 1.0.2g-1ubuntu4.6 i386 Secure Sockets Layer toolkit - shared libraries
ii libstartup-notification0:amd64 0.12-4build1 amd64 library for program launch feedback (shared library)
ii libstdc++-4.9-dev:amd64 4.9.3-13ubuntu2 amd64 GNU Standard C++ Library v3 (development files)
ii libstdc++-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Standard C++ Library v3 (development files)
ii libstdc++6:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Standard C++ Library v3
ii libstdc++6:i386 5.4.0-6ubuntu1~16.04.4 i386 GNU Standard C++ Library v3
ii libsub-name-perl 0.14-1build1 amd64 module for assigning a new name to referenced sub
ii libsuitesparseconfig4.4.6:amd64 1:4.4.6-1 amd64 configuration routines for all SuiteSparse modules
ii libswresample-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for audio resampling, rematrixing etc. - development files
ii libswresample-ffmpeg1:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for audio resampling, rematrixing etc. - runtime files
ii libswscale-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for image scaling and various conversions - development files
ii libswscale-ffmpeg3:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for image scaling and various conversions - runtime files
ii libsynctex1:amd64 2015.20160222.37495-1 amd64 TeX Live: SyncTeX parser library
ii libsys-hostname-long-perl 1.5-1 all Figure out the long (fully-qualified) hostname
ii libsystemd0:amd64 229-4ubuntu16 amd64 systemd utility library
ii libsystemd0:i386 229-4ubuntu16 i386 systemd utility library
ii libtablelayout-java 20090826-2 all Java layout manager for creating user interfaces fast and easy
ii libtag1v5:amd64 1.9.1-2.4ubuntu1 amd64 audio meta-data library
ii libtag1v5:i386 1.9.1-2.4ubuntu1 i386 audio meta-data library
ii libtag1v5-vanilla:amd64 1.9.1-2.4ubuntu1 amd64 audio meta-data library - vanilla flavour
ii libtag1v5-vanilla:i386 1.9.1-2.4ubuntu1 i386 audio meta-data library - vanilla flavour
ii libtalloc2:amd64 2.1.5-2 amd64 hierarchical pool based memory allocator

ii libtasn1-6:amd64 4.7-3ubuntu0.16.04.1 amd64 Manage ASN.1 structures (runtime)
ii libtasn1-6:i386 4.7-3ubuntu0.16.04.1 i386 Manage ASN.1 structures (runtime)
ii libtbb2:amd64 4.4~20151115-0ubuntu3 amd64 parallelism library for
C++ - runtime files
ii libtcl8.6:amd64 8.6.5+dfsg-2 amd64 Tcl (the Tool Command Language) v8.6 - run-time library files
ii libtdb1:amd64 1.3.8-2 amd64 Trivial Database - shared library
ii libtelepathy-glib0:amd64 0.24.1-1.1 amd64 Telepathy framework - GLib library
ii libtevent0:amd64 0.9.28-0ubuntu0.16.04.1 amd64 talloc-based event loop library - shared library
ii libtexlua52:amd64 2015.20160222.37495-1 amd64 TeX Live: Lua 5.2, modified for use with LuaTeX
ii libtexluajit2:amd64 2015.20160222.37495-1 amd64 TeX Live: LuaJIT,
modified for use with LuaJITTeX
ii libtext-charwidth-perl 0.04-7build5 amd64 get display widths of characters on the terminal
ii libtext-iconv-perl 1.7-5build4 amd64 converts between character sets in Perl
ii libtext-levenshtein-perl 0.13-1 all implementation of the Levenshtein edit distance
ii libtext-wrapi18n-perl 0.06-7.1 all internationalized substitute of Text::Wrap
ii libthai-data 0.1.24-2 all Data files for Thai language support library
ii libthai0:amd64 0.1.24-2 amd64
Thai language support library
ii libthai0:i386 0.1.24-2 i386 Thai language support library
ii libtheora0:amd64 1.1.1+dfsg.1-8 amd64 Theora Video Compression Codec
ii libtheora0:i386 1.1.1+dfsg.1-8 i386 Theora Video Compression Codec
ii libtie-ixhash-perl 1.23-2 all Perl module to order associative arrays
ii libtiff5:amd64 4.0.6-1 amd64 Tag Image File Format (TIFF) library
ii libtiff5:i386 4.0.6-1 i386 Tag Image File Format (TIFF) library
ii libtiff5-dev:amd64
4.0.6-1 amd64 Tag Image File Format library (TIFF), development files
ii libtiffxx5:amd64 4.0.6-1 amd64 Tag Image File Format (TIFF) library -- C++ interface

ii libtimedate-perl 2.3000-2 all collection of modules to manipulate date/time information
ii libtimezonemap-data 0.4.5 all GTK+3 timezone map widget - data files
ii libtimezonemap1:amd64 0.4.5 amd64 GTK+3 timezone map widget
ii libtinfo-dev:amd64 6.0+20160213-1ubuntu1 amd64 developer's library for the low-level terminfo library
ii libtinfo5:amd64 6.0+20160213-1ubuntu1 amd64 shared low-level terminfo library for terminal handling
ii libtinfo5:i386 6.0+20160213-1ubuntu1 i386 shared low-level terminfo library for terminal handling
ii libtk8.6:amd64 8.6.5-1 amd64 Tk toolkit for Tcl and X11 v8.6 - run-time files
ii libtotem-plparser-common 3.10.6-1ubuntu1 all Totem Playlist Parser library - common files
ii libtotem-plparser18:amd64 3.10.6-1ubuntu1 amd64 Totem Playlist Parser library - runtime files
ii libtotem0:amd64 3.18.1-1ubuntu4 amd64 Main library for the Totem media player
ii libtracker-sparql-1.0-0:amd64 1.6.2-0ubuntu1.1 amd64 metadata database, indexer and search tool - library
ii libtsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 ThreadSanitizer -- a Valgrind-based detector of data races (runtime)
ii libtwolame0:amd64 0.3.13-1.2 amd64 MPEG Audio Layer 2 encoding library
ii libtxc-dxtn-s2tc0:amd64 0~git20131104-1.1 amd64 Texture compression library for Mesa
ii libtxc-dxtn-s2tc0:i386 0~git20131104-1.1 i386 Texture compression library for Mesa
ii libubsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 UBSan -- undefined behaviour sanitizer (runtime)
ii libubuntugestures5:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Ubuntu gestures library for Ubuntu UI Toolkit
ii libubuntutoolkit5:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Ubuntu toolkit common library for Ubuntu UI Toolkit
ii libudev1:amd64 229-4ubuntu16 amd64 libudev shared library
ii libudev1:i386 229-4ubuntu16 i386 libudev shared library
ii libudisks2-0:amd64 2.1.7-1ubuntu1 amd64 GObject based library to access udisks2
ii libunistring0:amd64 0.9.3-5.2ubuntu1 amd64 Unicode string library for C
ii libunity-action-qt1:amd64 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 amd64 Unity Action Qt API
ii libunity-control-center1 15.04.0+16.04.20160705-0ubuntu1 amd64 utilities to

configure the GNOME desktop
ii libunity-core-6.0-9:amd64 7.4.0+16.04.20160906-0ubuntu1 amd64 core library for the Unity interface
ii libunity-gtk2-parser0:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell to GMenuModel parser
ii libunity-gtk3-parser0:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell to GMenuModel parser
ii libunity-misc4 4.0.5+14.04.20140115-0ubuntu1 amd64 Miscellaneous functions for Unity - shared library
ii libunity-protocol-private0:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 binding to get places into the launcher - private library
ii libunity-scopes-json-def-desktop 7.1.4+16.04.20160701-0ubuntu1 all binding to get places into the launcher - desktop def file
ii libunity-settings-daemon1:amd64 15.04.1+16.04.20160701-0ubuntu1 amd64 Helper library for accessing settings
ii libunity-webapps0:amd64 2.5.0~+16.04.20160201-0ubuntu1 amd64 Web Apps integration with the Unity desktop
ii libunity9:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 binding to get places into the launcher - shared library
ii libunwind8 1.1-4.1 amd64 library to determine the call-chain of a program
- runtime
ii libupower-glib3:amd64 0.99.4-2ubuntu0.3 amd64 abstraction for power management - shared library
ii liburi-perl 1.71-1 all module to manipulate and access URI strings
ii liburl-dispatcher1:amd64 0.1+16.04.20151110-0ubuntu2 amd64 library for sending requests to the url dispatcher
ii libusb-0.1-4:amd64 2:0.1.12-28 amd64 userspace USB programming library
ii libusb-1.0-0:amd64 2:1.0.20-1 amd64 userspace USB programming library
ii libusbmuxd4:amd64 1.0.10-2ubuntu0.1 amd64 USB multiplexor daemon for iPhone and iPod
Touch devices - library
ii libustr-1.0-1:amd64 1.0.4-5 amd64 Micro string library: shared library
ii libutempter0:amd64 1.1.6-3 amd64 privileged helper for utmp/wtmp updates (runtime)
ii libuuid-perl 0.24-1build1 amd64 Perl extension for using UUID interfaces as defined in e2fsprogs
ii libuuid1:amd64 2.27.1-6ubuntu3.2 amd64 Universally Unique ID library
ii libuuid1:i386 2.27.1-6ubuntu3.2 i386 Universally Unique ID library
ii libuv1:amd64 1.8.0-1 amd64 asynchronous event notification

library - runtime library
ii libuv1-dev:amd64 1.8.0-1 amd64 asynchronous event notification library - development files
ii libv4l-0:amd64 1.10.0-1 amd64 Collection of video4linux support libraries
ii libv4l-0:i386 1.10.0-1 i386 Collection of video4linux support libraries
ii libv4lconvert0:amd64 1.10.0-1 amd64 Video4linux frame format conversion library
ii libv4lconvert0:i386 1.10.0-1 i386 Video4linux frame format conversion library
ii libva1:amd64 1.7.0-1 amd64
Video Acceleration (VA) API for Linux -- runtime
ii libvdpau1:amd64 1.1.1-3ubuntu1 amd64 Video Decode and Presentation API for Unix (libraries)
ii libvisio-0.1-1:amd64 0.1.5-1ubuntu1 amd64 library for parsing the visio file structure
ii libvisual-0.4-0:amd64 0.4.0-8 amd64 audio visualization framework
ii libvisual-0.4-0:i386 0.4.0-8 i386 audio visualization framework
ii libvncclient1:amd64 0.9.10+dfsg-3ubuntu0.16.04.1 amd64 API to write one's own VNC server - client library
ii libvo-aacenc0:amd64 0.1.3-1 amd64
VisualOn AAC encoder library
ii libvo-amrwbenc0:amd64 0.1.3-1 amd64 VisualOn AMR-WB encoder library
ii libvorbis0a:amd64 1.3.5-3 amd64 decoder library for Vorbis General Audio Compression Codec
ii libvorbis0a:i386 1.3.5-3 i386 decoder library for Vorbis General Audio Compression Codec
ii libvorbisenc2:amd64 1.3.5-3 amd64 encoder library for Vorbis General Audio Compression Codec
ii libvorbisenc2:i386 1.3.5-3 i386 encoder library for Vorbis General Audio Compression Codec
ii libvorbisfile3:amd64 1.3.5-3
amd64 high-level API for Vorbis General Audio Compression Codec
ii libvpx3:amd64 1.5.0-2ubuntu1 amd64 VP8 and VP9 video codec (shared library)
ii libvpx3:i386 1.5.0-2ubuntu1 i386 VP8 and VP9 video codec (shared library)
ii libvte-2.91-0:amd64 0.42.5-1ubuntu1 amd64 Terminal emulator widget for GTK+ 3.0 - runtime files
ii libvte-2.91-common 0.42.5-1ubuntu1 all Terminal emulator widget for GTK+ 3.0 - common files
ii libwacom-bin 0.18-1 amd64 Wacom model feature query library -- binaries
ii libwacom-common

0.18-1 all Wacom model feature query library (common files)
ii libwacom2:amd64 0.18-1 amd64 Wacom model feature query library
ii libwagon-java 1.0.0-7 all tools to manage Maven artifacts and deployment
ii libwagon2-java 2.10-3 all resources' transport abstraction that is used in Maven
ii libwavpack1:amd64 4.75.2-2 amd64 audio codec (lossy and lossless) - library
ii libwavpack1:i386 4.75.2-2 i386 audio codec (lossy and lossless) - library
ii libwayland-client0:amd64 1.9.0-1 amd64 wayland compositor infrastructure - client library
ii libwayland-client0:i386 1.9.0-1 i386 wayland compositor infrastructure - client library
ii libwayland-cursor0:amd64 1.9.0-1 amd64 wayland compositor infrastructure - cursor library
ii libwayland-egl1-mesa:amd64 11.2.0-1ubuntu2.2 amd64 implementation of the Wayland EGL platform -- runtime
ii libwayland-server0:amd64 1.9.0-1 amd64 wayland compositor infrastructure - server library
ii libwayland-server0:i386 1.9.0-1 i386 wayland compositor infrastructure - server library
ii libwbclient0:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 Samba winbind client library
ii libwebkit2gtk-4.0-37:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+
ii libwebkit2gtk-4.0-37-gtk2:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+ - GTK+2 plugin process
ii libwebkitgtk-1.0-0:i386 2.4.11-0ubuntu0.1 i386 Web content engine library for GTK+
ii libwebkitgtk-1.0-common 2.4.11-0ubuntu0.1 all Web content engine library for GTK+ - data files
ii libwebp5:amd64 0.4.4-1 amd64 Lossy compression of digital photographic images.
ii libwebp5:i386 0.4.4-1 i386 Lossy compression of digital photographic images.
ii libwebpmux1:amd64 0.4.4-1 amd64 Lossy compression of digital photographic images.
ii libwebrtc-audio-processing-0:amd64 0.1-3ubuntu1~gcc5.1 amd64 AudioProcessing module from the WebRTC project.
ii libwhoopsie-preferences0 0.18 amd64 Ubuntu error tracker submission settings - shared library
ii libwhoopsie0:amd64 0.2.52.2 amd64 Ubuntu error tracker submission - shared library
ii libwildmidi-config 0.3.8-2 all software

MIDI player configuration
ii libwildmidi1:amd64 0.3.8-2 amd64 software MIDI player library
ii libwind0-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - stringprep implementation
ii libwinpr-crt0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (crt library)
ii libwinpr-dsparse0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (dsparse library)
ii libwinpr-environment0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (environment library)
ii libwinpr-file0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows
Portable Runtime library (file library)
ii libwinpr-handle0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (handle library)
ii libwinpr-heap0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (heap library)
ii libwinpr-input0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (input library)
ii libwinpr-interlocked0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (interlocked library)
ii libwinpr-library0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (library)
ii libwinpr-path0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1
amd64 Windows Portable Runtime library (path library)
ii libwinpr-pool0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (pool library)
ii libwinpr-registry0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (registry library)
ii libwinpr-rpc0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (RPC library)
ii libwinpr-sspi0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (sspi library)
ii libwinpr-synch0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (synch library)
ii libwinpr-sysinfo0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1
amd64 Windows Portable Runtime library (sysinfo library)
ii libwinpr-thread0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (thread library)
ii libwinpr-utils0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (utils library)
ii libwmf0.2-7:amd64 0.2.8.4-10.5ubuntu1 amd64 Windows metafile conversion library
ii libwmf0.2-7-gtk 0.2.8.4-10.5ubuntu1 amd64 Windows metafile conversion library
ii libwnck-3-0:amd64 3.14.1-2 amd64 Window Navigator Construction Kit - runtime files

ii libwnck-3-common
3.14.1-2 all Window Navigator Construction Kit - common files
ii libwpd-0.10-10:amd64 0.10.1-1ubuntu1 amd64 Library for handling WordPerfect documents (shared library)
ii libwpg-0.3-3:amd64 0.3.1-1ubuntu1 amd64 WordPerfect graphics import/convert library (shared library)
ii libwps-0.4-4:amd64 0.4.3-1ubuntu1 amd64 Works text file format import filter library (shared library)
ii libwrap0:amd64 7.6.q-25 amd64 Wietse Venema's TCP wrappers library
ii libwrap0:i386 7.6.q-25 i386 Wietse Venema's TCP wrappers library
ii libwww-perl
6.15-1 all simple and consistent interface to the world-wide web
ii libwww-robotrules-perl 6.01-1 all database of robots.txt-derived permissions
ii libx11-6:amd64 2:1.6.3-1ubuntu2 amd64 X11 client-side library
ii libx11-6:i386 2:1.6.3-1ubuntu2 i386 X11 client-side library
ii libx11-data 2:1.6.3-1ubuntu2 all X11 client-side library
ii libx11-dev:amd64 2:1.6.3-1ubuntu2 amd64 X11 client-side library (development headers)
ii libx11-doc
2:1.6.3-1ubuntu2 all X11 client-side library (development documentation)
ii libx11-protocol-perl 0.56-7 all Perl module for the X Window System Protocol, version 11
ii libx11-xcb-dev:amd64 2:1.6.3-1ubuntu2 amd64 Xlib/XCB interface library (development headers)
ii libx11-xcb1:amd64 2:1.6.3-1ubuntu2 amd64 Xlib/XCB interface library
ii libx11-xcb1:i386 2:1.6.3-1ubuntu2 i386 Xlib/XCB interface library
ii libx264-148:amd64 2:0.148.2643+git5c65704-1 amd64 x264 video coding library
ii libx265-79:amd64 1.9-3
amd64 H.265/HEVC video stream encoder (shared library)
ii libx86-1:amd64 1.1+ds1-10 amd64 x86 real-mode library
ii libxalan2-java 2.7.1-9 all XSL Transformations (XSLT) processor in Java
ii libxapian22v5:amd64 1.2.22-2 amd64 Search engine library
ii libxatracker2:amd64 11.2.0-1ubuntu2.2 amd64 X acceleration library -- runtime
ii libxau-dev:amd64 1:1.0.8-1 amd64 X11 authorisation library (development headers)
ii libxau6:amd64 1:1.0.8-1 amd64 X11 authorisation library
ii libxau6:i386 1:1.0.8-1 i386 X11 authorisation library

ii libxaw7:amd64 2:1.0.13-1 amd64 X11 Athena Widget library
ii libxbean-java 4.5-1 all plugin based Java application server
ii libxcb-dri2-0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri2 extension
ii libxcb-dri2-0:i386 1.11.1-1ubuntu1 i386 X C Binding, dri2 extension
ii libxcb-dri2-0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri2 extension, development files
ii libxcb-dri3-0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri3 extension
ii libxcb-dri3-0:i386 1.11.1-1ubuntu1 i386 X C Binding, dri3 extension
ii libxcb-dri3-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri3 extension, development files
ii libxcb-glx0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, glx extension
ii libxcb-glx0:i386 1.11.1-1ubuntu1 i386 X C Binding, glx extension
ii libxcb-glx0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, glx extension, development files
ii libxcb-icccm4:amd64 0.4.1-1ubuntu1 amd64 utility libraries for X C Binding -- icccm
ii libxcb-image0:amd64 0.4.0-1build1 amd64 utility libraries for X C Binding -- image
ii libxcb-keysyms1:amd64 0.4.0-1 amd64 utility libraries for X C Binding -- keysyms
ii libxcb-present-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, present extension, development files
ii libxcb-present0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, present extension
ii libxcb-present0:i386 1.11.1-1ubuntu1 i386 X C Binding, present extension
ii libxcb-randr0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, randr extension
ii libxcb-randr0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, randr extension, development files
ii libxcb-render-util0:amd64 0.3.9-1 amd64 utility libraries for X C Binding -- render-util
ii libxcb-render0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, render extension
ii libxcb-render0:i386 1.11.1-1ubuntu1 i386 X C Binding, render extension
ii libxcb-render0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, render extension, development files
ii libxcb-shape0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shape extension

ii
libxcb-shape0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
shape extension, development files
ii libxcb-shm0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shm
extension
ii libxcb-shm0:i386 1.11.1-1ubuntu1 i386 X C Binding, shm
extension
ii libxcb-shm0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
shm extension, development files
ii libxcb-sync-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, sync
extension, development files
ii libxcb-sync1:amd64 1.11.1-1ubuntu1 amd64 X C Binding, sync
extension
ii libxcb-sync1:i386
1.11.1-1ubuntu1 i386 X C Binding, sync extension
ii libxcb-util1:amd64 0.4.0-0ubuntu3 amd64 utility libraries for X
C Binding -- atom, aux and event
ii libxcb-xfixes0:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
xfixes extension
ii libxcb-xfixes0:i386 1.11.1-1ubuntu1 i386 X C Binding, xfixes
extension
ii libxcb-xfixes0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
xfixes extension, development files
ii libxcb-xkb1:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
XKEYBOARD extension
ii libxcb1:amd64 1.11.1-1ubuntu1
amd64 X C Binding
ii libxcb1:i386 1.11.1-1ubuntu1 i386 X C Binding
ii libxcb1-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding,
development files
ii libxcomposite-dev 1:0.4.4-1 amd64 X11 Composite
extension library (development headers)
ii libxcomposite1:amd64 1:0.4.4-1 amd64 X11 Composite
extension library
ii libxcomposite1:i386 1:0.4.4-1 i386 X11 Composite
extension library
ii libxcursor-dev:amd64 1:1.1.14-1 amd64 X cursor management
library (development
files)
ii libxcursor1:amd64 1:1.1.14-1 amd64 X cursor management
library
ii libxcursor1:i386 1:1.1.14-1 i386 X cursor management
library
ii libxdamage-dev:amd64 1:1.1.4-2 amd64 X11 damaged region
extension library (development headers)
ii libxdamage1:amd64 1:1.1.4-2 amd64 X11 damaged region
extension library
ii libxdamage1:i386 1:1.1.4-2 i386 X11 damaged region

extension library
ii libxdmcp-dev:amd64 1:1.1.2-1.1 amd64 X11 authorisation library (development headers)
ii libxdmcp6:amd64 1:1.1.2-1.1 amd64 X11 Display Manager Control Protocol library
ii libxdmcp6:i386 1:1.1.2-1.1 i386 X11 Display Manager Control Protocol library
ii libxerces2-java 2.11.0-7 all Validating XML parser for Java with DOM level 3 support
ii libxext-dev:amd64 2:1.3.3-1 amd64 X11 miscellaneous extensions library (development headers)
ii libxext6:amd64 2:1.3.3-1 amd64 X11 miscellaneous extension library
ii libxext6:i386 2:1.3.3-1 i386 X11 miscellaneous extension library
ii libxfixes-dev:amd64 1:5.0.1-2 amd64 X11 miscellaneous 'fixes' extension library (development headers)
ii libxfixes3:amd64 1:5.0.1-2 amd64 X11 miscellaneous 'fixes' extension library
ii libxfixes3:i386 1:5.0.1-2 i386 X11 miscellaneous 'fixes' extension library
ii libxfont1:amd64 1:1.5.1-1 amd64 X11 font rasterisation library
ii libxft-dev 2.3.2-1 amd64 FreeType-based font drawing library for X (development files)
ii libxft2:amd64 2.3.2-1 amd64 FreeType-based font drawing library for X
ii libxi-dev 2:1.7.6-1 amd64 X11 Input extension library (development headers)
ii libxi6:amd64 2:1.7.6-1 amd64 X11 Input extension library
ii libxi6:i386 2:1.7.6-1 i386 X11 Input extension library
ii libxinerama-dev:amd64 2:1.1.3-1 amd64 X11 Xinerama extension library (development headers)
ii libxinerama1:amd64 2:1.1.3-1 amd64 X11 Xinerama extension library
ii libxinerama1:i386 2:1.1.3-1 i386 X11 Xinerama extension library
ii libxkbcommon-x11-0:amd64 0.5.0-1ubuntu2 amd64 library to create keymaps with the XKB X11 protocol
ii libxkbcommon0:amd64 0.5.0-1ubuntu2 amd64 library interface to the XKB compiler - shared library
ii libxkbfile1:amd64 1:1.0.9-0ubuntu1 amd64 X11 keyboard file manipulation library
ii libxklavier16:amd64 5.4-0ubuntu2 amd64 X Keyboard

Extension high-level API
ii libxml-commons-external-java 1.4.01-2build1 all XML Commons external code - DOM, SAX, and JAXP, etc
ii libxml-commons-resolver1.1-java 1.2-7build1 all XML entity and URI resolver library
ii libxml-dom-perl 1.44-2 all Perl module for building DOM Level 1 compliant doc structures
ii libxml-parser-perl 2.44-1build1 amd64 Perl module for parsing XML files
ii libxml-perl 0.08-2 all Perl modules for working with XML
ii libxml-regexp-perl 0.04-1 all Perl module for regular expressions for XML tokens
ii libxml-twig-perl 1:3.48-1 all Perl module for processing huge XML documents in tree mode
ii libxml-xpathengine-perl 0.13-1 all re-usable XPath engine for DOM-like
trees
ii libxml2:amd64 2.9.3+dfsg1-1ubuntu0.1 amd64 GNOME XML library
ii libxml2:i386 2.9.3+dfsg1-1ubuntu0.1 i386 GNOME XML library
ii libxml2-dev:amd64 2.9.3+dfsg1-1ubuntu0.1 amd64 Development files for the GNOME XML library
ii libxml2-utils 2.9.3+dfsg1-1ubuntu0.1 amd64 XML utilities
ii libxmu6:amd64 2:1.1.2-2 amd64 X11 miscellaneous utility library
ii libxmuu1:amd64 2:1.1.2-2 amd64 X11 miscellaneous micro-utility library
ii libxom-java 1.2.10-1 all New XML object model for Java
ii libxpm4:amd64 1:3.5.11-1ubuntu0.16.04.1 amd64 X11 pixmap library
ii libxpp2-java 2.1.10-7build1 all XML pull parser library for java V2
ii libxpp3-java 1.1.4c-2build1 all XML pull parser library for java
ii libxrandr-dev:amd64 2:1.5.0-1 amd64 X11 RandR extension library (development headers)
ii libxrandr2:amd64 2:1.5.0-1 amd64 X11 RandR extension library
ii libxrandr2:i386 2:1.5.0-1 i386 X11 RandR extension library
ii
libxrender-dev:amd64 1:0.9.9-0ubuntu1 amd64 X Rendering Extension client library (development files)
ii libxrender1:amd64 1:0.9.9-0ubuntu1 amd64 X Rendering

Extension client library
ii libxrender1:i386 1:0.9.9-0ubuntu1 i386 X Rendering Extension client library
ii libxres1:amd64 2:1.0.7-1 amd64 X11 Resource extension library
ii libxshmfence-dev:amd64 1.2-1 amd64 X shared memory fences - development files
ii libxshmfence1:amd64 1.2-1 amd64 X shared memory fences - shared library
ii libxshmfence1:i386 1.2-1 i386 X shared memory fences - shared library
ii libxslt1.1:amd64 1.1.28-2.1 amd64 XSLT 1.0 processing library - runtime library
ii libxslt1.1:i386 1.1.28-2.1 i386 XSLT 1.0 processing library - runtime library
ii libxss1:amd64 1:1.2.2-1 amd64 X11 Screen Saver extension library
ii libxss1:i386 1:1.2.2-1 i386 X11 Screen Saver extension library
ii libxt6:amd64 1:1.1.5-0ubuntu1 amd64 X11 toolkit intrinsics library
ii libxt6:i386 1:1.1.5-0ubuntu1 i386 X11 toolkit intrinsics library
ii libxtables11:amd64 1.6.0-2ubuntu3 amd64 netfilter xtables library
ii libxtst6:amd64 2:1.2.2-1 amd64 X11 Testing -- Record extension library
ii libxtst6:i386 2:1.2.2-1 i386 X11 Testing -- Record extension library
ii libxv1:amd64 2:1.0.10-1 amd64 X11 Video extension library
ii libxv1:i386 2:1.0.10-1 i386 X11 Video extension library
ii libxvidcore4:amd64 2:1.3.4-1 amd64 Open source MPEG-4 video codec (library)
ii libxvmc1:amd64 2:1.0.9-1ubuntu1 amd64 X11 Video extension library
ii libxxf86dga1:amd64 2:1.1.4-1 amd64 X11 Direct Graphics Access extension library
ii libxxf86vm-dev:amd64 1:1.1.4-1 amd64 X11 XFree86 video mode extension library (development headers)
ii libxxf86vm1:amd64 1:1.1.4-1 amd64 X11 XFree86 video mode extension library
ii libxxf86vm1:i386 1:1.1.4-1 i386 X11 XFree86 video mode extension library
ii libyajl2:amd64 2.1.0-2 amd64 Yet Another JSON Library
ii libyaml-0-2:amd64 0.1.6-3 amd64 Fast YAML 1.1 parser and emitter library

ii libyaml-libyaml-perl 0.41-6build1 amd64 Perl interface to libyaml, a YAML implementation
ii libyaml-tiny-perl 1.69-1 all Perl module for reading and writing YAML files
ii libyelp0:amd64 3.18.1-1ubuntu4 amd64 Library for the GNOME help browser
ii libzbar0:amd64 0.10+doc-10ubuntu1 amd64 bar code scanner and decoder (library)
ii libzeitgeist-1.0-1:amd64 0.3.18-1ubuntu3 amd64 library to access Zeitgeist - shared library
ii libzeitgeist-2.0-0:amd64 0.9.16-0ubuntu4 amd64 library to access Zeitgeist - shared library
ii libzmq5:amd64 4.1.4-7 amd64 lightweight messaging kernel (shared library)
ii libzvbi-common 0.2.35-10 all Vertical Blanking Interval decoder (VBI) - common files
ii libzvbi0:amd64 0.2.35-10 amd64 Vertical Blanking Interval decoder (VBI) - runtime files
ii libzzip-0-13:amd64 0.13.62-3 amd64 library providing read access on ZIP-archives - library
ii light-themes 14.04+16.04.20161024-0ubuntu1 all Light Themes (Ambiance and Radiance)
ii lightdm 1.18.3-0ubuntu1 amd64 Display Manager
ii lintian 2.5.43 all Debian package checker
ii linux-base 4.0ubuntu1 all Linux image base package
ii linux-firmware 1.157.8 all Firmware for Linux kernel drivers
ii linux-generic 4.4.0.62.65 amd64 Complete Generic Linux kernel and headers
ii linux-headers-4.4.0-59 4.4.0-59.80 all Header files related to Linux kernel version 4.4.0
ii linux-headers-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel headers for version 4.4.0 on 64 bit x86 SMP
ii linux-headers-4.4.0-62 4.4.0-62.83 all Header files related to Linux kernel version 4.4.0
ii linux-headers-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel headers for version 4.4.0 on 64 bit x86 SMP
ii linux-headers-generic 4.4.0.62.65 amd64 Generic Linux kernel headers
rc linux-image-4.4.0-57-generic 4.4.0-57.78 amd64 Linux kernel image for version 4.4.0 on 64 bit x86 SMP
ii linux-image-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel image for version 4.4.0 on 64 bit x86 SMP
ii linux-image-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel image for version 4.4.0 on 64 bit x86 SMP
rc linux-image-extra-4.4.0-57-generic 4.4.0-57.78 amd64 Linux kernel

extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-extra-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-extra-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-generic 4.4.0.62.65 amd64 Generic Linux kernel image
ii linux-libc-dev:amd64 4.4.0-62.83 amd64 Linux Kernel Headers for development
ii linux-signed-generic 4.4.0.62.65 amd64 Complete Signed Generic Linux kernel and headers
rc linux-signed-image-4.4.0-57-generic 4.4.0-57.78 amd64 Signed kernel image generic
ii linux-signed-image-4.4.0-59-generic 4.4.0-59.80 amd64 Signed kernel image generic
ii linux-signed-image-4.4.0-62-generic 4.4.0-62.83 amd64 Signed kernel image generic
ii linux-signed-image-generic 4.4.0.62.65 amd64 Signed Generic Linux kernel image
ii linux-sound-base 1.0.25+dfsg-0ubuntu5 all base package for ALSA and OSS sound systems
ii linux-tools-4.4.0-59 4.4.0-59.80 amd64 Linux kernel version specific tools for version 4.4.0-59
ii linux-tools-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel version specific tools for version 4.4.0-59
ii linux-tools-4.4.0-62 4.4.0-62.83 amd64 Linux kernel version specific tools for version 4.4.0-62
ii linux-tools-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel version specific tools for version 4.4.0-62
ii linux-tools-common 4.4.0-62.83 all Linux kernel version specific tools for version 4.4.0
ii linux-tools-virtual 4.4.0.62.65 amd64 This package will always depend on the latest minimal generic kernel tools.
ii lldb 1:3.8-33ubuntu3.1 amd64 Next generation, high-performance debugger
ii lldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-performance debugger
ii llvm-3.8 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies
ii llvm-3.8-dev 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, libraries and headers
ii llvm-3.8-runtime 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, IR interpreter
ii lmodern 2.004.5-1 all scalable PostScript and OpenType fonts based on Computer Modern
ii locales 2.23-0ubuntu5 all GNU C Library: National Language (locale) data [support]

ii login 1:4.2-3.1ubuntu5 amd64 system login tools
ii logrotate 3.8.7-2ubuntu2 amd64 Log rotation utility
ii lp-solve 5.5.0.13-7build2 amd64 Solve (mixed integer) linear programming problems
ii lsb-base 9.20160110ubuntu0.2 all Linux Standard Base init script functionality
ii lsb-release 9.20160110ubuntu0.2 all Linux Standard Base version reporting utility
ii lshw 02.17-1.1ubuntu3.2 amd64 information about hardware configuration
ii lsof 4.89+dfsg-0.1 amd64 Utility to list open files
ii ltrace 0.7.3-5.1ubuntu4 amd64 Tracks runtime library calls in dynamically linked programs
ii m4 1.4.17-5 amd64 macro processing language
ii make 4.1-6 amd64 utility for directing compilation
ii makedev 2.3.1-93ubuntu1 all creates device files in /dev
ii man-db 2.7.5-1 amd64 on-line manual pager
ii manpages 4.04-2 all Manual pages about using a GNU/Linux system
ii manpages-dev 4.04-2 all Manual pages about using GNU/Linux for development
ii mathpiper 0.81f+svn4469+dfsg3-3 all Java Computer Algebra System
ii maven 3.3.9-3 all Java software project management and comprehension tool
ii mawk 1.3.3-17ubuntu2 amd64 a pattern scanning and text processing language
ii media-player-info 22-2 all Media player identification files
ii memtest86+ 5.01-3ubuntu2 amd64 thorough real-mode memory tester
ii mesa-common-dev:amd64 11.2.0-1ubuntu2.2 amd64 Developer documentation for Mesa
ii mesa-vdpau-drivers:amd64 11.2.0-1ubuntu2.2 amd64 Mesa VDPAU video acceleration drivers
ii metacity-common 1:3.18.7-0ubuntu0.2 all shared files for the Metacity window manager
ii mime-support 3.59ubuntu1 all MIME files 'mime.types' & 'mailcap', and support programs
ii mlocate 0.26-1ubuntu2 amd64 quickly find files on the filesystem based on their name
ii mobile-broadband-provider-info 20140317-1 all database of mobile broadband service providers
ii modemmanager 1.4.12-1ubuntu1 amd64 D-Bus service for managing modems

ii mokutil 0.3.0-0ubuntu3 amd64 tools for manipulating machine owner keys
ii mongodb-org-server 3.0.14 amd64 MongoDB database server
ii mongodb-org-shell 3.0.14 amd64 MongoDB shell client
ii mongodb-org-tools 3.0.14 amd64 MongoDB tools
ii mono-4.0-gac 4.2.1.102+dfsg2-7ubuntu4 all Mono GAC tool (for CLI 4.0)
ii mono-csharp-shell 4.2.1.102+dfsg2-7ubuntu4 all interactive C# shell
ii mono-devel 4.2.1.102+dfsg2-7ubuntu4 all Mono development tools
ii mono-gac 4.2.1.102+dfsg2-7ubuntu4 all Mono GAC tool
ii mono-mcs 4.2.1.102+dfsg2-7ubuntu4 all Mono C# 2.0 / 3.0 / 4.0 / 5.0 compiler for CLI 2.0 / 4.0 / 4.5
ii mono-runtime 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - default version
ii mono-runtime-common 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - common files
ii mono-runtime-sgen 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - SGen
ii mono-utils 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono utilities
ii mono-xbuild 4.2.1.102+dfsg2-7ubuntu4 all MSBuild-compatible build system for Mono
ii mount 2.27.1-6ubuntu3.2 amd64 tools for mounting and manipulating filesystems
ii mountall 2.54ubuntu1 amd64 filesystem mounting tool
ii mousetweaks 3.12.0-1ubuntu2 amd64 mouse accessibility enhancements for the GNOME desktop
ii mscompress 0.4-3 amd64 Microsoft "compress.exe/expand.exe" compatible (de)compressor
ii mtools 4.0.18-2ubuntu0.16.04 amd64 Tools for manipulating MSDOS files
ii mtr-tiny 0.86-1ubuntu0.1 amd64 Full screen ncurses traceroute tool
ii multiarch-support 2.23-0ubuntu5 amd64 Transitional package to ensure multiarch compatibility
ii mysql-common 5.7.17-0ubuntu0.16.04.1 all MySQL database common files, e.g. /etc/mysql/my.cnf
ii mythes-en-au 2.1-5.4 all Australian English Thesaurus for OpenOffice.org
ii mythes-en-us 1:5.1.0-1ubuntu2.2 all English (USA) Thesaurus for LibreOffice
ii mythes-it 2.0.7.gh.deb1-4.1 all Italian Thesaurus for OpenOffice.org 2
ii nano 2.5.3-2ubuntu1 amd64 small, friendly text editor inspired by Pico

ii nautilus 1:3.18.4.is.3.14.3-0ubuntu5 amd64 file manager and graphical shell for GNOME
ii nautilus-data 1:3.18.4.is.3.14.3-0ubuntu5 all data files for nautilus
ii nautilus-sendto 3.8.2-1ubuntu1 amd64 integrates Evolution and Pidgin into the Nautilus file manager
ii nautilus-share 0.7.3-2ubuntu1 amd64 Nautilus extension to share folder using Samba
ii ncurses-base 6.0+20160213-1ubuntu1 all basic terminal type definitions
ii ncurses-bin 6.0+20160213-1ubuntu1 amd64 terminal-related programs and man pages
ii net-tools 1.60-26ubuntu1 amd64 NET-3 networking toolkit
ii netbase 5.3 all Basic TCP/IP networking system
ii netcat-openbsd 1.105-7ubuntu1 amd64 TCP/IP swiss army knife
ii netpbm 2:10.0-15.3 amd64 Graphics conversion tools between image formats
ii network-manager 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (daemon and userspace tools)
ii network-manager-gnome 1.2.0-0ubuntu0.16.04.4 amd64 network management framework (GNOME frontend)
ii network-manager-pptp 1.1.93-1ubuntu1 amd64 network management framework (PPTP plugin core)
ii network-manager-pptp-gnome 1.1.93-1ubuntu1 amd64 network management framework (PPTP plugin GNOME GUI)
ii node-abbrev 1.0.5-2 all Get unique abbreviations for a set of strings - Node.js module
ii node-ansi 0.3.0-2 all Advanced ANSI formatting tool for Node.js
ii node-ansi-color-table 1.0.0-1 all Color and format tables for ansi output - Node.js module
ii node-archy 0.0.2-1 all Pretty-print nested hierarchies module for Node.js
ii node-async 0.8.0-1 all higher-order functions and common patterns for asynchronous Javascript
ii node-block-stream 0.0.7-1 all Stream of fixed-size blocks, with zero-padding when necessary
ii node-combined-stream 0.0.5-1 all Append streams one after another - module for Node.js
ii node-cookie-jar 0.3.1-1 all Cookie handling for HTTP clients - module for Node.js
ii node-delayed-stream 0.0.5-1 all Buffer stream events for later handling - module for Node.js
ii node-forever-agent 0.5.1-1 all HTTP agent supporting

keep-alive requests - module for Node.js
ii node-form-data 0.1.0-1 all Create multipart/form-data streams module for Node.js
ii node-fstream 0.1.24-1 all Advanced filesystem streaming tools for Node.js
ii node-fstream-ignore 0.0.6-2 all Directory reader configurable by .ignore module for Node.js
ii node-github-url-from-git 1.1.1-1 all Convert github git or gist url to an http url - Node.js module
ii node-glob 4.0.5-1 all glob functionality for Node.js
ii node-graceful-fs 3.0.2-1 all drop-in replacement improving the Node.js fs module
ii node-gyp 3.0.3-2ubuntu1 all Native addon build tool for Node.js
ii node-inherits 2.0.1-3 all Exposes inherits function from Node.js environment
ii node-ini 1.1.0-1 all ini format parser and serializer for Node.js
ii node-json-stringify-safe 5.0.0-1 all JSON.stringify with circular references module for Node.js
ii node-lockfile 0.4.1-1 all Asynchronous file lock module for Node.js
ii node-lru-cache 2.3.1-1 all least-recently-used cache object for Node.js
ii node-mime 1.3.4-1 all library for mime-type mapping for Node.js
ii node-minimatch 1.0.0-1 all Convert glob expressions into RegExp objects for Node.js
ii node-mkdirp 0.5.0-1 all Recursively create directories - Node.js module
ii node-mute-stream 0.0.4-1 all Pass-through stream that can be muted module for Node.js
ii node-node-uuid 1.4.0-1 all simple, fast generation of RFC4122 UUIDs - Node module
ii node-nopt 3.0.1-1 all Command-line option parser for Node.js
ii node-normalize-package-data 0.2.2-1 all Normalizes package metadata - Node.js module
ii node-npmlog 0.0.4-1 all Logger with custom levels and colored output for Node.js
ii node-once 1.1.1-1 all Run a function only once with this module for Node.js
ii node-osenv 0.1.0-1 all Environment settings lookup module for Node.js
ii node-qs 2.2.4-1 all Parse, stringify query strings for Node.js
ii node-read 1.0.5-1 all Read user input from stdin

module for Node.js
ii node-read-package-json
1.2.4-1 all Read package.json for npm module for Node.js
ii node-request 2.26.1-1 all simplified HTTP request
client module for Node.js
ii node-retry 0.6.0-1 all Retry strategies for failed
operations module for Node.js
ii node-rimraf 2.2.8-1 all Deep deletion (like rm -rf)
module for Node.js
ii node-semver 2.1.0-2 all Semantic Versioning for
Node.js
ii node-sha 1.2.3-1 all Check and get file or stream
hashes - module for Node.js
ii node-sigmund
1.0.0-1 all Quick and dirty signatures for Objects module
for Node.js
ii node-slide 1.1.4-1 all Simple chain and asyncMap
flow control module for Node.js
ii node-tar 1.0.3-2 all read and write portable tar
archives module for Node.js
ii node-tunnel-agent 0.3.1-1 all HTTP proxy tunneling agent
module for Node.js
ii node-underscore 1.7.0~dfsg-1ubuntu1 all JavaScript's functional
programming helper library - NodeJS
ii node-which 1.0.5-2 all Cross-platform
'which' module for Node.js
ii nodejs 4.2.6~dfsg-1ubuntu4.1 amd64 evented I/O for V8
javascript
ii nodejs-dev 4.2.6~dfsg-1ubuntu4.1 amd64 evented I/O for V8
javascript (development files)
ii nodejs-legacy 4.2.6~dfsg-1ubuntu4.1 all evented I/O for V8
javascript (legacy symlink)
ii notify-osd 0.9.35+16.04.20160415-0ubuntu1 amd64 daemon that
displays passive pop-up notifications
ii notify-osd-icons 0.8+15.10.20151016.2-0ubuntu1 all Notify-OSD
icons
ii npm 3.5.2-0ubuntu4 all package manager for Node.js
ii
ntfs-3g 1:2015.3.14AR.1-1ubuntu0.1 amd64 read/write NTFS
driver for FUSE
ii nux-tools 4.0.8+16.04.20160705-0ubuntu1 amd64 Visual rendering
toolkit for real-time applications - tools
ii ocl-icd-libopencl1:amd64 2.2.8-1 amd64 Generic OpenCL ICD
Loader
ii ocl-icd-opencl-dev:amd64 2.2.8-1 amd64 OpenCL development
files
ii onboard 1.2.0-0ubuntu5 amd64 Simple On-screen
Keyboard

ii onboard-data 1.2.0-0ubuntu5 all Language model files for the word suggestion feature of Onboard
ii opencl-headers 2.0~svn32091-2 all OpenCL (Open Computing Language) header files
ii opencv-data 2.4.9.1+dfsg-1.5ubuntu1 all development data for opencv
ii openoffice.org-hyphenation 0.9 all Hyphenation patterns for OpenOffice.org
ii openprinting-ppds 20160212-0ubuntu1 all OpenPrinting printer support - PostScript PPD files
ii openssh-client 1:7.2p2-4ubuntu2.1 amd64 secure shell (SSH) client, for secure access to remote machines
ii openssl 1.0.2g-1ubuntu4.6 amd64 Secure Sockets Layer toolkit - cryptographic utility
ii oracle-java8-installer 8u121-1~webupd8~0 all Oracle Java(TM) Development Kit (JDK) 8
ii oracle-java8-set-default 8u121-1~webupd8~0 all Set Oracle JDK 8 as default Java
ii os-prober 1.70ubuntu3 amd64 utility to detect other OSes on a set of drives
ii overlay-scrollbar 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 all Scrollbar overlay - configuration
ii overlay-scrollbar-gtk2:amd64 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 amd64 GTK 2 module for overlay scrollbars
ii oxideqt-codecs-extra:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (codecs)
ii p11-kit 0.23.2-5~ubuntu16.04.1 amd64 p11-glue utilities
ii p11-kit-modules:amd64 0.23.2-5~ubuntu16.04.1 amd64 p11-glue proxy and trust modules
ii pandoc 1.16.0.2~dfsg-1 amd64 general markup converter
ii pandoc-data 1.16.0.2~dfsg-1 all general markup converter - data files
ii parted 3.2-15 amd64 disk partition manipulator
ii passwd 1:4.2-3.1ubuntu5 amd64 change and administer password and group data
ii patch 2.7.5-1 amd64 Apply a diff file to an original
ii patchutils 0.3.4-1 amd64 Utilities to work with patches
ii pciutils 1:3.3.1-1.1ubuntu1 amd64 Linux PCI Utilities
ii pcmciautils 018-8 amd64 PCMCIA utilities for Linux 2.6
ii perl 5.22.1-9 amd64 Larry Wall's Practical Extraction and Report Language
ii perl-base 5.22.1-9 amd64 minimal Perl system
ii perl-modules-5.22 5.22.1-9 all Core Perl modules
ii pgdg-keyring

2014.1 all keyring for apt.postgresql.org
ii pinentry-gnome3 0.9.7-3 amd64 GNOME 3 PIN or pass-phrase entry dialog for GnuPG
ii pkg-config 0.29.1-0ubuntu1 amd64 manage compile and link flags for libraries
ii plainbox-provider-checkbox 0.25-1 amd64 CheckBox provider for PlainBox
ii plainbox-provider-resource-generic 0.23-1 amd64 CheckBox generic resource jobs provider
ii plainbox-secure-policy 0.25-1 all policykit policy required to use plainbox (secure version)
ii plymouth 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer
ii plymouth-label 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - label control
ii plymouth-theme-ubuntu-logo 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - ubuntu theme
ii plymouth-theme-ubuntu-text 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - ubuntu text theme
ii pm-utils 1.4.1-16 all utilities and scripts for power management
ii po-debconf 1.0.19 all tool for managing templates file translations with gettext
ii policykit-1 0.105-14.1 amd64 framework for managing administrative policies and privileges
ii policykit-1-gnome 0.105-2ubuntu2 amd64 GNOME authentication agent for PolicyKit-1
ii policykit-desktop-privileges 0.20 all run common desktop actions without password
ii poppler-data 0.4.7-7 all encoding data for the poppler PDF rendering library
ii poppler-utils 0.41.0-0ubuntu1.1 amd64 PDF utilities (based on Poppler)
ii popularity-contest 1.64ubuntu2 all Vote for your favourite packages automatically
ii postgresql 9.6+178.pgdg16.04+1 all object-relational SQL database (supported version)
ii postgresql-9.5 9.5.5-1.pgdg16.04+1 amd64 object-relational SQL database, version 9.5 server
ii postgresql-9.6 9.6.1-2.pgdg16.04+1 amd64 object-relational SQL database, version 9.6 server
ii postgresql-client-9.5 9.5.5-1.pgdg16.04+1 amd64 front-end programs for PostgreSQL 9.5
ii postgresql-client-9.6 9.6.1-2.pgdg16.04+1 amd64 front-end programs for PostgreSQL 9.6
ii postgresql-client-common 178.pgdg16.04+1 all manager for

multiple PostgreSQL client versions
ii postgresql-common 178.pgdg16.04+1 all PostgreSQL database-cluster manager
ii postgresql-contrib 9.6+178.pgdg16.04+1 all additional facilities for PostgreSQL (supported version)
ii postgresql-contrib-9.5 9.5.5-1.pgdg16.04+1 amd64 additional facilities for PostgreSQL
ii postgresql-contrib-9.6 9.6.1-2.pgdg16.04+1 amd64 additional facilities for PostgreSQL
ii powermgmt-base 1.31+nmu1 all Common utils and configs for power management
ii ppp 2.4.7-1+2ubuntu1 amd64 Point-to-Point Protocol (PPP) - daemon
ii pppconfig 2.3.22 all Text menu based utility for configuring ppp
ii pppoeconf 1.21ubuntu1 all configures PPPoE/ADSL connections
ii pptp-linux 1.8.0-1 amd64 Point-to-Point Tunneling Protocol (PPTP) Client
ii preview-latex-style 11.88-1.1ubuntu1 all extraction of elements from LaTeX documents as graphics
ii printer-driver-brlaser 3-5~ubuntu1 amd64 printer driver for (some) Brother laser printers
ii printer-driver-c2esp 27-2 amd64 printer driver for Kodak ESP AiO color inkjet Series
ii printer-driver-foo2zjs 20151024dfsg0-1ubuntu1 amd64 printer driver for ZjStream-based printers
ii printer-driver-foo2zjs-common 20151024dfsg0-1ubuntu1 all printer driver for ZjStream-based printers - common files
ii printer-driver-gutenprint 5.2.11-1 amd64 printer drivers for CUPS
ii printer-driver-hpcups 3.16.3+repack0-1 amd64 HP Linux Printing and Imaging - CUPS Raster driver (hpcups)
ii printer-driver-min12xxw 0.0.9-9 amd64 printer driver for KonicaMinolta PagePro 1[234]xxW
ii printer-driver-pnm2ppa 1.13+nondbs-0ubuntu5 amd64 printer driver for HP-GDI printers
ii printer-driver-postscript-hp 3.16.3+repack0-1 all HP Printers PostScript Descriptions
ii printer-driver-ptouch 1.4-1 amd64 printer driver Brother P-touch label printers
ii printer-driver-pxljr 1.4+repack0-4 amd64 printer driver for HP Color LaserJet 35xx/36xx
ii printer-driver-sag-gdi 0.1-4ubuntu1 all printer driver for Ricoh Aficio SP 1000s/SP 1100s
ii printer-driver-splix 2.0.0+svn315-4fakesync1 amd64 Driver for Samsung and Xerox SPL2 and SPLc laser printers
ii procps 2:3.3.10-4ubuntu2.3

amd64 /proc file system utilities
ii prosper 1.00.4+cvs.2007.05.01-4 all LaTeX class for writing transparencies
ii ps2eps 1.68+binaryfree-1 amd64 convert PostScript to EPS (Encapsulated PostScript) files
ii psmisc 22.21-2.1build1 amd64 utilities that use the proc file system
ii psutils 1.17.dfsg-2 amd64 PostScript document handling utilities
ii pulse 8.2 all Pulse Secure Client for Linux
ii pulseaudio 1:8.0-0ubuntu3.2 amd64 PulseAudio sound server
ii pulseaudio-module-bluetooth 1:8.0-0ubuntu3.2 amd64 Bluetooth module for PulseAudio sound server
ii pulseaudio-module-x11 1:8.0-0ubuntu3.2 amd64 X11 module for PulseAudio sound server
ii pulseaudio-utils 1:8.0-0ubuntu3.2 amd64 Command line tools for the PulseAudio sound server
ii pyotherside 1.4.0-2 all transitional dummy package
ii python 2.7.11-1 amd64 interactive high-level object-oriented language (default version)
ii python-alabaster 0.7.7-1 all Configurable sidebar-enabled Sphinx theme (Python 2)
ii python-all 2.7.11-1 amd64 package depending on all supported Python runtime versions
ii python-all-dev 2.7.11-1 amd64 package depending on all supported Python development packages
ii python-appindicator 12.10.1+15.04.20141110-0ubuntu1 amd64 Python bindings for libappindicator
ii python-apt 1.1.0~beta1build1 amd64 Python interface to libapt-pkg
ii python-apt-common 1.1.0~beta1build1 all Python interface to libapt-pkg (locales)
ii python-babel 1.3+dfsg.1-6 all tools for internationalizing Python applications - Python 2.x
ii python-babel-localedata 1.3+dfsg.1-6 all tools for internationalizing Python applications - locale data files
ii python-cairo 1.8.8-2 amd64 Python bindings for the Cairo vector graphics library
ii python-chardet 2.3.0-2 all universal character encoding detector for Python2
ii python-compizconfig:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 Compizconfig bindings for Python
ii python-dev 2.7.11-1 amd64 header files and a static library for Python (default)
ii python-docutils 0.12+dfsg-1 all text processing system for reStructuredText (implemented in Python 2)

ii python-gi 3.20.0-0ubuntu1 amd64 Python 2.x bindings for gobject-introspection libraries
ii python-gobject 3.20.0-0ubuntu1 all Python 2.x bindings for GObject - transitional package
ii python-gobject-2 2.28.6-12ubuntu1 amd64 deprecated static Python bindings for the GObject library
ii python-gtk2 2.24.0-4ubuntu1 amd64 Python bindings for the GTK+ widget set
ii python-jinja2 2.8-1 all small but fast and easy to use stand-alone template engine
ii python-lldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-performance debugger, python lib
ii python-lockfile 1:0.12.2-1 all file locking library for Python — Python 2 library
ii python-markupsafe 0.23-2build2 amd64 HTML/XHTML/XML string library for Python
ii python-minimal 2.7.11-1 amd64 minimal subset of the Python language (default version)
ii python-numpy 1:1.11.0-1ubuntu1 amd64 Numerical Python adds a fast array facility to the Python language
ii python-pil:amd64 3.1.2-0ubuntu1 amd64 Python Imaging Library (Pillow fork)
ii python-pil.imagetk:amd64 3.1.2-0ubuntu1 amd64 Python Imaging Library - ImageTk Module (Pillow fork)
ii python-pip 8.1.1-2ubuntu0.4 all alternative Python package installer
ii python-pip-whl 8.1.1-2ubuntu0.4 all alternative Python package installer
ii python-pkg-resources 20.7.0-1 all Package Discovery and Resource Access using pkg_resources
ii python-ply 3.7-1 all Lex and Yacc implementation for Python2
ii python-pygments 2.1+dfsg-1 all syntax highlighting package written in Python
ii python-roman 2.0.0-2 all module for generating/analyzing Roman numerals for Python 2
ii python-setuptools 20.7.0-1 all Python Distutils Enhancements
ii python-six 1.10.0-3 all Python 2 and 3 compatibility library (Python 2 interface)
ii python-sphinx 1.3.6-2ubuntu1 all documentation generator for Python projects (implemented in Python 2)
ii python-sphinx-rtd-theme 0.1.9-1 all sphinx theme from readthedocs.org (Python 2)
ii python-talloc 2.1.5-2 amd64 hierarchical pool based memory allocator - Python bindings
ii python-tk 2.7.11-2 amd64 Tkinter - Writing Tk

applications with Python
ii python-tz 2014.10~dfsg1-0ubuntu2 all Python version of the Olson timezone database
ii python-wheel 0.29.0-1 all built-package format for Python
ii python2.7 2.7.12-1ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (version 2.7)
ii python2.7-dev 2.7.12-1ubuntu0~16.04.1 amd64 Header files and a static library for Python (v2.7)
ii
python2.7-minimal 2.7.12-1ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 2.7)
ii python3 3.5.1-3 amd64 interactive high-level object-oriented language (default python3 version)
ii python3-apport 2.20.1-0ubuntu2.5 all Python 3 library for Apport crash report handling
ii python3-apt 1.1.0~beta1build1 amd64 Python 3 interface to libapt-pkg
ii python3-aptdaemon 1.1.1+bzr982-0ubuntu14 all Python 3 module for the server and client of aptdaemon
ii python3-aptdaemon.gtk3widgets 1.1.1+bzr982-0ubuntu14 all
Python 3 GTK+ 3 widgets to run an aptdaemon client
ii python3-aptdaemon.pkcompat 1.1.1+bzr982-0ubuntu14 all PackageKit compatibilty for AptDaemon
ii python3-blinker 1.3.dfsg2-1build1 all fast, simple object-to-object and broadcast signaling library
ii python3-brlapi 5.3.1-2ubuntu2.1 amd64 Braille display access via BRLTTY - Python3 bindings
ii python3-bs4 4.4.1-1 all error-tolerant HTML parser for Python 3
ii python3-cairo 1.10.0+dfsg-5build1 amd64 Python 3 bindings for the Cairo vector graphics library
ii python3-cffi-backend 1.5.2-1ubuntu1
amd64 Foreign Function Interface for Python 3 calling C code - runtime
ii python3-chardet 2.3.0-2 all universal character encoding detector for Python3
ii python3-checkbox-support 0.22-1 all collection of Python modules used by PlainBox providers
ii python3-commandnotfound 0.3ubuntu16.04.2 all Python 3 bindings for command-not-found.
ii python3-cryptography 1.2.3-1ubuntu0.1 amd64 Python library exposing cryptographic recipes and primitives (Python 3)
ii python3-cups 1.9.73-0ubuntu2 amd64 Python3 bindings for CUPS
ii python3-cupshelpers
1.5.7+20160212-0ubuntu2 all Python modules for printer configuration with CUPS
ii python3-dbus 1.2.0-3 amd64 simple interprocess

messaging system (Python 3 interface)
ii python3-debian 0.1.27ubuntu2 all Python 3 modules to work with Debian-related data formats
ii python3-defer 1.0.6-2build1 all Small framework for asynchronous programming (Python 3)
ii python3-distupgrade 1:16.04.20 all manage release upgrades
ii python3-feedparser 5.1.3-3build1 all Universal Feed Parser for Python 3
ii python3-gdbm:amd64 3.5.1-1 amd64 GNU dbm database support for Python 3.x
ii python3-gi 3.20.0-0ubuntu1 amd64 Python 3 bindings for gobject-introspection libraries
ii python3-gi-cairo 3.20.0-0ubuntu1 amd64 Python 3 Cairo bindings for the GObject library
ii python3-guacamole 0.9.2-1 all framework for creating command line applications (Python 3)
ii python3-html5lib 0.999-4 all HTML parser/tokenizer based on the WHATWG HTML5 specification (Python 3)
ii python3-httplib2 0.9.1+dfsg-1 all comprehensive HTTP client library written for Python3
ii python3-idna 2.0-3 all Python IDNA2008 (RFC 5891) handling (Python 3)
ii python3-jinja2 2.8-1 all small but fast and easy to use stand-alone template engine
ii python3-jwt 1.3.0-1 all Python 3 implementation of JSON Web Token
ii python3-louis 2.6.4-2 all Python bindings for liblouis
ii python3-lxml 3.5.0-1build1 amd64 pythonic binding for the libxml2 and libxslt libraries
ii python3-mako 1.0.3+ds1-1ubuntu1 all fast and lightweight templating for the Python 3 platform
ii python3-markupsafe 0.23-2build2 amd64 HTML/XHTML/XML string library for Python 3
ii python3-minimal 3.5.1-3 amd64 minimal subset of the Python language (default python3 version)
ii python3-oauthlib 1.0.3-1 all generic, spec-compliant implementation of OAuth for Python3
ii python3-padme 1.1.1-2 all mostly transparent proxy class for Python 3
ii python3-pexpect 4.0.1-1 all Python 3 module for automating interactive applications
ii python3-pil:amd64 3.1.2-0ubuntu1 amd64 Python Imaging Library (Python3)
ii python3-pkg-resources 20.7.0-1 all Package Discovery and Resource Access using pkg_resources
ii python3-plainbox 0.25-1 all toolkit for software and hardware testing (python3 module)
ii python3-problem-report 2.20.1-0ubuntu2.5 all Python 3 library to

handle problem reports
ii python3-ptyprocess 0.5-1 all Run a subprocess in a pseudo terminal from Python 3
ii python3-pyasn1 0.1.9-1 all ASN.1 library for Python (Python 3 module)
ii python3-pyatspi 2.18.0+dfsg-3 all Assistive Technology Service Provider Interface - Python3 bindings
ii python3-pycurl 7.43.0-1ubuntu1 amd64 Python bindings to libcurl (Python 3)
ii python3-pyparsing 2.0.3+dfsg1-1ubuntu0.1 all Python parsing module, Python3 package
ii python3-renderpm:amd64 3.3.0-1 amd64 python low level render interface
ii python3-reportlab 3.3.0-1 all ReportLab library to create PDF documents using Python3
ii python3-reportlab-accel:amd64 3.3.0-1 amd64 C coded extension accelerator for the ReportLab Toolkit
ii python3-requests 2.9.1-3 all elegant and simple HTTP library for Python3, built for human beings
ii python3-six 1.10.0-3 all Python 2 and 3 compatibility library (Python 3 interface)
ii python3-software-properties 0.96.20.5 all manage the repositories that you install software from
ii python3-speechd 0.8.3-1ubuntu3 all Python interface to Speech Dispatcher
ii python3-systemd 231-2build1 amd64 Python 3 bindings for systemd
ii python3-uno 1:5.1.4-0ubuntu1 amd64 Python-UNO bridge
ii python3-update-manager 1:16.04.5 all python 3.x module for update-manager
ii python3-urllib3 1.13.1-2ubuntu0.16.04.1 all HTTP library with thread-safe connection pooling for Python3
ii python3-xdg 0.25-4 all Python 3 library to access freedesktop.org standards
ii python3-xkit 0.5.0ubuntu2 all library for the manipulation of xorg.conf files (Python 3)
ii python3-xlsxwriter 0.7.3-1 all Python 3 module for creating Excel XLSX files
ii python3.5 3.5.2-2ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (version 3.5)
ii python3.5-minimal 3.5.2-2ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 3.5)
ii qdbus 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus tool
ii qml-module-io-thp-pyotherside:amd64 1.4.0-2 amd64 asynchronous Python 3 Bindings for Qt 5 (QML plugin)

ii qml-module-qt-labs-folderlistmodel:amd64 5.5.1-2ubuntu6 amd64 Qt 5 folderlistmodel QML module
ii qml-module-qt-labs-settings:amd64 5.5.1-2ubuntu6 amd64 Qt 5 settings QML module
ii qml-module-qtfeedback:amd64 5.0~git20130529-0ubuntu13 amd64 Qt 5 Feedback
QML module
ii qml-module-qtgraphicaleffects:amd64 5.5.1-1ubuntu1 amd64 Qt 5 Graphical Effects module
ii qml-module-qtquick-layouts:amd64 5.5.1-1ubuntu1 amd64 Qt 5 Quick Layouts QML module
ii qml-module-qtquick-window2:amd64 5.5.1-2ubuntu6 amd64 Qt 5 window 2 QML module
ii qml-module-qtquick2:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Qt Quick 2 QML module
ii qml-module-qttest:amd64 5.5.1-2ubuntu6 amd64 Qt 5 test QML module
ii qml-module-ubuntu-components:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Components QML plugin
ii qml-module-ubuntu-layouts:amd64
1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Layouts QML plugin
ii qml-module-ubuntu-onlineaccounts:amd64 0.6+16.04.20151106-0ubuntu1 amd64 Expose the Online Accounts API to QML applications
ii qml-module-ubuntu-performancemetrics:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - PerformanceMetrics QML plugin
ii qml-module-ubuntu-test:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Test QML plugin
ii qml-module-ubuntu-web:amd64 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web QML module
ii qmlscene 5.5.1-2ubuntu6 amd64 Qt 5 QML scene viewer
ii qpdf 6.0.0-2
amd64 tools for transforming and inspecting PDF files
ii qt-at-spi:amd64 0.4.0-3 amd64 at-spi accessibility plugin for Qt
ii qt-at-spi:i386 0.4.0-3 i386 at-spi accessibility plugin for Qt
ii qtchooser 52-gae5eeef-2build1~gcc5.2 amd64 Wrapper to select between Qt development binary versions
ii qtcore4-l10n 4:4.8.7+dfsg-5ubuntu2 all Qt 4 core module translations
ii qtdeclarative5-accounts-plugin:amd64 0.6+16.04.20151106-0ubuntu1 amd64 transitional dummy package for Online Accounts QML clients
ii qtdeclarative5-dev-tools 5.5.1-2ubuntu6
amd64 Qt 5 declarative development programs
ii qtdeclarative5-qtquick2-plugin:amd64 5.5.1-2ubuntu6 amd64 transitional dummy package Qt 5 Qt Quick 2 QML module
ii qtdeclarative5-test-plugin:amd64 5.5.1-2ubuntu6 amd64 transitional dummy package for Qt 5 test QML module

ii qtdeclarative5-ubuntu-ui-toolkit-plugin 1.3.1918+16.04.20160404-0ubuntu1 amd64 Transitional dummy package for Ubuntu UI Toolkit QML plugin
ii qtdeclarative5-unity-action-plugin:amd64 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 amd64 Unity Action QML Components
ii qttranslations5-l10n 5.5.1-2build1 all translations for Qt 5
ii rake 10.5.0-2 all ruby make-like utility
ii readline-common 6.3-8ubuntu2 all GNU readline and history libraries, common files
ii remmina 1.1.2-3ubuntu1 amd64 remote desktop client for GNOME desktop environment
ii remmina-common 1.1.2-3ubuntu1 all common files for remmina remote desktop client
ii remmina-plugin-rdp 1.1.2-3ubuntu1 amd64 RDP plugin for remmina remote desktop client
ii remmina-plugin-vnc 1.1.2-3ubuntu1 amd64 VNC plugin for remmina remote desktop client
ii rename 0.20-4 all Perl extension for renaming multiple files
ii resolvconf 1.78ubuntu2 all name server information handler
ii rfkill 0.5-1ubuntu3 amd64 tool for enabling and disabling wireless devices
ii rhythmbox 3.3-1ubuntu7 amd64 music player and organizer for GNOME
ii rhythmbox-data 3.3-1ubuntu7 all data files for rhythmbox
ii rhythmbox-plugin-zeitgeist 3.3-1ubuntu7 all zeitgeist plugin for rhythmbox music player
ii rhythmbox-plugins 3.3-1ubuntu7 amd64 plugins for rhythmbox music player
ii rsync 3.1.1-3ubuntu1 amd64 fast, versatile, remote (and local) file-copying tool
ii rsyslog 8.16.0-1ubuntu3 amd64 reliable system and kernel logging daemon
ii rtkit 0.11-4 amd64 Realtime Policy and Watchdog Daemon
ii ruby 1:2.3.0+1 all Interpreter of object-oriented scripting language Ruby (default version)
ii ruby-did-you-mean 1.0.0-2 all smart error messages for Ruby > 2.3
ii ruby-minitest 5.8.4-2 all Ruby test tools supporting TDD, BDD, mocking, and benchmarking
ii ruby-net-telnet 0.1.1-2 all telnet client library
ii ruby-power-assert 0.2.7-1 all library showing values of variables and method calls in an expression
ii ruby-test-unit 3.1.7-2 all unit testing framework for Ruby
ii ruby2.3 2.3.1-2~16.04 amd64 Interpreter of object-

oriented scripting language Ruby
ii rubygems-integration 1.10 all integration of Debian Ruby packages with Rubygems
ii s-nail 14.8.6-1 amd64 feature-rich BSD mail(1)
ii samba-libs:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 Samba core libraries
ii sane-utils 1.0.26-git20160712-xenial0 amd64 API library for scanners -- utilities
ii sbsigntool 0.6-0ubuntu10.1 amd64 utility for signing and verifying files for UEFI Secure Boot
ii seahorse 3.18.0-2ubuntu1 amd64 GNOME front end for GnuPG
ii secureboot-db 1.1 amd64 Secure Boot updates for DB and DBX
ii sed 4.2.2-7 amd64 The GNU sed stream editor
ii sensible-utils 0.0.9 all Utilities for sensible alternative selection
ii session-migration 0.2.3 amd64 Tool to migrate in user session settings
ii session-shortcuts 1.2 all Allows you to shutdown, logout, and reboot from dash
ii sessioninstaller 0.20+bzr150-0ubuntu4.1 all APT based installer using PackageKit's session DBus API
ii sgml-base 1.26+nmu4ubuntu1 all SGML infrastructure and SGML catalog file support
ii shared-mime-info 1.5-2ubuntu0.1 amd64 FreeDesktop.org shared MIME database and spec
ii shim 0.8-0ubuntu2 amd64 boot loader to chain-load signed boot loaders under Secure Boot
ii shim-signed 1.19~16.04.1+0.8-0ubuntu2 amd64 Secure Boot chain-loading bootloader (Microsoft-signed binary)
ii shotwell 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 amd64 digital photo organizer
ii shotwell-common 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 all digital photo organizer - common files
ii signon-keyring-extension 0.6+14.10.20140513-0ubuntu2 amd64 GNOME keyring extension for signond
ii signon-plugin-oauth2 0.23+16.04.20151209-0ubuntu1 amd64 Single Signon oauth2 plugin
ii signon-plugin-password 8.58+16.04.20151106-0ubuntu1 amd64 Plain Password plugin for Single Sign On
ii signon-ui 0.17+16.04.20151125-0ubuntu1 all Dummy transitional package for signon-ui
ii signon-ui-service 0.17+16.04.20151125-0ubuntu1 all D-Bus service file for signon-ui
ii signon-ui-x11 0.17+16.04.20151125-0ubuntu1 amd64 Single Sign-on

UI
ii signond 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii simple-scan 3.20.0-0ubuntu1 amd64 Simple Scanning Utility
ii skype:i386 4.3.0.37-1 i386 Wherever you are, wherever they are
ii slack-desktop 2.4.2 amd64 Slack Desktop
ii smartmontools 6.4+svn4214-1 amd64 control and monitor storage systems using S.M.A.R.T.
ii snap-confine 2.20.1ubuntu1 amd64 Support executable to apply confinement for snappy apps
ii snapd 2.20.1ubuntu1 amd64 Tool to interact with Ubuntu Core Snappy.
ii snapd-login-service 1.2-0ubuntu1.1~xenial amd64 Daemon to allow non-root access to snapd
ii sni-qt:amd64 0.2.7+15.10.20150729-0ubuntu1 amd64 indicator support for Qt
ii sni-qt:i386 0.2.7+15.10.20150729-0ubuntu1 i386 indicator support for Qt
ii software-properties-common 0.96.20.5 all manage the repositories that you install software from (common)
ii software-properties-gtk 0.96.20.5 all manage the repositories that you install software from (gtk)
ii sound-theme-freedesktop 0.8-1 all freedesktop.org sound theme
ii speech-dispatcher 0.8.3-1ubuntu3 amd64 Common interface to speech synthesizers
ii speech-dispatcher-audio-plugins:amd64 0.8.3-1ubuntu3 amd64 Speech Dispatcher: Audio output plugins
ii sphinx-common 1.3.6-2ubuntu1 all documentation generator for Python projects - common data
ii sphinx-doc 1.3.6-2ubuntu1 all documentation generator for Python projects - documentation
ii sphinx-rtd-theme-common 0.1.9-1 all sphinx theme from readthedocs.org (common files)
ii squashfs-tools 1:4.3-3ubuntu2 amd64 Tool to create and append to squashfs filesystems
ii ssl-cert 1.0.37 all simple debconf wrapper for OpenSSL
ii steam-launcher 1.0.0.54 all Launcher for the Steam software distribution service
ii strace 4.11-1ubuntu3 amd64 System call tracer
ii sudo 1.8.16-0ubuntu1.2 amd64 Provide limited super user privileges to specific users
ii suru-icon-theme 14.04+16.04.20161024-0ubuntu1 all Ubuntu Suru Icon theme
ii swig 3.0.8-0ubuntu3 amd64 Generate scripting

interfaces to C/C++ code
ii swig3.0 3.0.8-0ubuntu3 amd64 Generate scripting interfaces to C/C++ code
ii syslinux 3:6.03+dfsg-11ubuntu1 amd64 collection of bootloaders (DOS FAT and NTFS bootloader)
ii syslinux-common 3:6.03+dfsg-11ubuntu1 all collection of bootloaders (common)
ii syslinux-legacy 2:3.63+dfsg-2ubuntu8 amd64 Bootloader for Linux/i386 using MS-DOS floppies
ii sysstat 11.2.0-1ubuntu0.1 amd64 system performance tools for Linux
ii system-config-printer-common 1.5.7+20160212-0ubuntu2 all Printer configuration GUI
ii system-config-printer-gnome 1.5.7+20160212-0ubuntu2 all Printer configuration GUI
ii system-config-printer-udev 1.5.7+20160212-0ubuntu2 amd64 Printer auto-configuration facility based on udev
ii systemd 229-4ubuntu16 amd64 system and service manager
ii systemd-sysv 229-4ubuntu16 amd64 system and service manager - SysV links
ii sysv-rc 2.88dsf-59.3ubuntu2 all System-V-like runlevel change mechanism
ii sysvinit-utils 2.88dsf-59.3ubuntu2 amd64 System-V-like utilities
ii t1utils 1.39-2 amd64 Collection of simple Type 1 font manipulation programs
ii tar 1.28-2.1ubuntu0.1 amd64 GNU version of the tar archiving utility
ii tcl 8.6.0+9 amd64 Tool Command Language (default version) - shell
ii tcl8.6 8.6.5+dfsg-2 amd64 Tcl (the Tool Command Language) v8.6 - shell
ii tcpd 7.6.q-25 amd64 Wietse Venema's TCP wrapper utilities
ii tcpdump 4.7.4-1ubuntu1 amd64 command-line network traffic analyzer
ii teamviewer:i386 11.0.57095 i386 TeamViewer (Remote Control Application)
ii telnet 0.17-40 amd64 basic telnet client
ii tex-common 6.04 all common infrastructure for building and installing TeX
ii tex-gyre 20150923-1 all scalable PostScript and OpenType fonts based on URW Fonts
ii texlive 2015.20160320-1 all TeX Live: A decent selection of the TeX Live packages
ii texlive-base 2015.20160320-1 all TeX Live: Essential programs and files

ii texlive-binaries 2015.20160222.37495-1 amd64 Binaries for TeX Live
ii texlive-extra-utils 2015.20160320-1 all TeX Live: TeX auxiliary programs
ii texlive-font-utils 2015.20160320-1 all TeX Live: Graphics and font utilities
ii texlive-fonts-recommended 2015.20160320-1 all TeX Live: Recommended fonts
ii texlive-fonts-recommended-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-fonts-recommended
ii texlive-generic-recommended 2015.20160320-1 all TeX Live: Generic recommended packages
ii texlive-lang-english 2015.20160223-1 all TeX Live: US and UK English
ii texlive-lang-italian 2015.20160223-1 all TeX Live: Italian
ii texlive-latex-base 2015.20160320-1 all TeX Live: LaTeX fundamental packages
ii texlive-latex-base-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-base
ii texlive-latex-extra 2015.20160320-1 all TeX Live: LaTeX additional packages
ii texlive-latex-extra-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-extra
ii texlive-latex-recommended 2015.20160320-1 all TeX Live: LaTeX recommended packages
ii texlive-latex-recommended-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-recommended
ii texlive-pictures 2015.20160320-1 all TeX Live: Graphics, pictures, diagrams
ii texlive-pictures-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-pictures
ii texlive-pstricks 2015.20160320-1 all TeX Live: PSTricks
ii texlive-pstricks-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-pstricks
ii texlive-science 2015.20160320-1 all TeX Live: Natural and computer sciences
ii texlive-science-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-science
ii texmaker 4.4.1-1.1 amd64 cross-platform LaTeX editor
ii texmaker-data 4.4.1-1.1 all Texmaker LaTeX editor -- arch-independent files
ii thermald 1.5-2ubuntu2 amd64 Thermal monitoring and controlling daemon
ii thunderbird 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Email, RSS and newsgroup client with integrated spam filter
ii thunderbird-gnome-support 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Email, RSS and newsgroup client - GNOME support

ii thunderbird-locale-en 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 English language pack for Thunderbird
ii thunderbird-locale-en-gb 1:45.7.0+build1-0ubuntu0.16.04.1 all Transitional English language pack for Thunderbird
ii thunderbird-locale-en-us 1:45.7.0+build1-0ubuntu0.16.04.1 all Transitional English language pack for Thunderbird
ii thunderbird-locale-it 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Italian language pack for Thunderbird
ii time 1.7-25.1 amd64 GNU time program for measuring CPU resource usage
ii tipa 2:1.3-20 all system for processing phonetic symbols in LaTeX
ii tk 8.6.0+9 amd64 Toolkit for Tcl and X11 (default version) - windowing shell
ii tk8.6 8.6.5-1 amd64 Tk toolkit for Tcl and X11 v8.6 - windowing shell
ii tk8.6-blt2.5 2.5.3+dfsg-3 amd64 graphics extension library for Tcl/Tk - library
ii tlp 0.8-1 all Save battery power on laptops
ii tlp-rdw 0.8-1 all Radio device wizard
ii toshset 1.76-4 amd64 Access much of the Toshiba laptop hardware interface
ii totem 3.18.1-1ubuntu4 amd64 Simple media player for the GNOME desktop based on GStreamer
ii totem-common 3.18.1-1ubuntu4 all Data files for the Totem media player
ii totem-plugins 3.18.1-1ubuntu4 amd64 Plugins for the Totem media player
ii traceroute 1:2.0.21-1 amd64 Traces the route taken by packets over an IPv4/IPv6 network
ii transmission-common 2.84-3ubuntu3 all lightweight BitTorrent client (common files)
ii transmission-gtk 2.84-3ubuntu3 amd64 lightweight BitTorrent client (GTK+ interface)
ii tree 1.7.0-3 amd64 displays an indented directory tree, in color
ii ttf-ancient-fonts-symbola 2.59-1 all symbolic font providing emoji characters from Unicode 7.0 (transitional package)
ii ttf-bitstream-vera 1.10-8 all The Bitstream Vera family of free TrueType fonts
ii ttf-ubuntu-font-family 1:0.83-0ubuntu2 all Ubuntu Font Family, sans-serif typeface hinted for clarity
ii tzdata 2016j-0ubuntu0.16.04 all time zone and daylight-saving time data
ii ubuntu-artwork 1:14.04+16.04.20161024-0ubuntu1 all Ubuntu themes and artwork

ii ubuntu-core-launcher 2.20.1ubuntu1 amd64 Launcher for ubuntu-core
(snappy) apps
ii ubuntu-desktop 1.361 amd64 The Ubuntu desktop system
ii ubuntu-docs 16.04.4 all Ubuntu Desktop Guide
ii ubuntu-drivers-common 1:0.4.17.2 amd64 Detect and install additional Ubuntu driver packages
ii ubuntu-keyring 2012.05.19 all GnuPG keys of the Ubuntu archive
ii ubuntu-minimal 1.361 amd64 Minimal core of Ubuntu
ii ubuntu-mobile-icons 14.04+16.04.20161024-0ubuntu1 all Ubuntu Mobile Icon theme
ii ubuntu-mono 14.04+16.04.20161024-0ubuntu1 all Ubuntu Mono Icon theme
ii ubuntu-release-upgrader-core 1:16.04.20 all manage release upgrades
ii ubuntu-release-upgrader-gtk 1:16.04.20 all manage release upgrades
ii ubuntu-restricted-addons 23 amd64 Commonly used restricted packages for Ubuntu
ii ubuntu-session 3.18.1.2-1ubuntu1.16.04.2 all Ubuntu session
ii ubuntu-settings 15.10.8 all default settings for the Ubuntu desktop
ii ubuntu-software 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 amd64 Utility for browsing, installing,
and removing software
ii ubuntu-sounds 0.13 all Ubuntu's GNOME audio theme
ii ubuntu-standard 1.361 amd64 The Ubuntu standard system
ii ubuntu-system-service 0.3 all Dbus service to set various system-wide configurations
ii ubuntu-touch-sounds 15.08 all sounds for the Ubuntu Touch image
ii ubuntu-ui-toolkit-theme 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Ubuntu Theme
ii ubuntu-wallpapers 16.04.1-0ubuntu1 all Ubuntu Wallpapers
ii ubuntu-wallpapers-xenial 16.04.1-0ubuntu1 all Ubuntu 16.04 Wallpapers
ii ucf 3.0036 all Update Configuration File(s): preserve user changes to config files
ii udev 229-4ubuntu16 amd64 /dev/ and hotplug management daemon
ii udisks2 2.1.7-1ubuntu1 amd64 D-Bus service to access and manipulate storage devices
ii ufw 0.35-0ubuntu2 all program for managing a Netfilter firewall

ii unattended-upgrades 0.90ubuntu0.3 all automatic installation of security upgrades
ii unity 7.4.0+16.04.20160906-0ubuntu1 amd64 Interface designed for efficiency of space and interaction.
ii unity-accessibility-profiles 0.1.10-0ubuntu3 all Accessibility Profile Manager - Unity profile data
ii unity-asset-pool 0.8.24+15.04.20141217-0ubuntu2 all Unity Assets Pool
ii unity-control-center 15.04.0+16.04.20160705-0ubuntu1 amd64 utilities to configure the GNOME desktop
ii unity-control-center-faces 15.04.0+16.04.20160705-0ubuntu1 all utilities to configure the GNOME desktop - faces images
ii unity-control-center-signon 0.1.8+16.04.20160201-0ubuntu1 amd64 Unity Control Center extension for single signon
ii unity-greeter 16.04.2-0ubuntu1 amd64 Unity Greeter
ii unity-gtk-module-common 0.0.0+15.04.20150118-0ubuntu2 all Common files for GtkMenuShell D-Bus exporter
ii unity-gtk2-module:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell D-Bus exporter
ii unity-gtk3-module:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell D-Bus exporter
ii unity-lens-applications 7.1.0+16.04.20160701-0ubuntu1 amd64 Application lens for unity
ii unity-lens-files 7.1.0+16.04.20151217-0ubuntu1 amd64 File lens for unity
ii unity-lens-music 6.9.1+16.04-0ubuntu1 amd64 Music lens for unity
ii unity-lens-photos 1.0+14.04.20140318-0ubuntu1 all Photos lens for Unity
ii unity-lens-video 0.3.15+16.04.20160212.1-0ubuntu1 amd64 Unity Video lens
ii unity-schemas 7.4.0+16.04.20160906-0ubuntu1 all Interface designed for efficiency of space and interaction.
ii unity-scope-calculator 0.1+14.04.20140328-0ubuntu1 all Calculator scope for Unity
ii unity-scope-chromiumbookmarks 0.1+13.10.20130723-0ubuntu1 all Chromium bookmarks scope for Unity
ii unity-scope-colourlovers 0.1+13.10.20130723-0ubuntu1 all COLOURlovers scope for Unity
ii unity-scope-devhelp 0.1+14.04.20140328-0ubuntu1 all devhelp scope for Unity
ii unity-scope-firefoxbookmarks 0.1+13.10.20130809.1-0ubuntu1 all Firefox bookmarks scope for Unity
ii unity-scope-gdrive 0.9+16.04.20151125-0ubuntu1 all Google Drive scope for Unity
ii unity-scope-home 6.8.2+16.04.20160212.1-0ubuntu1 amd64 Home scope

that aggregates results from multiple scopes
ii unity-scope-manpages 3.0+14.04.20140324-0ubuntu1 all Manual pages scope for Unity
ii unity-scope-openclipart 0.1+13.10.20130723-0ubuntu1 all OpenClipArt scope for Unity
ii unity-scope-texdoc 0.1+14.04.20140328-0ubuntu1 all Texdoc scope for Unity
ii unity-scope-tomboy 0.1+13.10.20130723-0ubuntu1 all Tomboy scope for Unity
ii unity-scope-video-remote 0.3.15+16.04.20160212.1-0ubuntu1 amd64 Remote videos engine
ii unity-scope-virtualbox 0.1+13.10.20130723-0ubuntu1 all VirtualBox scope for Unity
ii unity-scope-yelp 0.1+13.10.20130723-0ubuntu1 all Help scope for Unity
ii unity-scope-zotero 0.1+13.10.20130723-0ubuntu1 all Zotero scope for Unity
ii unity-scopes-master-default 6.8.2+16.04.20160212.1-0ubuntu1 all Home scope that aggregates results from multiple scopes
ii unity-scopes-runner 7.1.4+16.04.20160701-0ubuntu1 all desktop runner for miscellenous scopes
ii unity-services 7.4.0+16.04.20160906-0ubuntu1 amd64 Services for the Unity interface
ii unity-settings-daemon 15.04.1+16.04.20160701-0ubuntu1 amd64 daemon handling the Unity session settings
ii unity-webapps-common 2.4.17+15.10.20150616-0ubuntu2 all Unity WebApp integration scripts
ii unity-webapps-qml 0.1+16.04.20160114-0ubuntu1 amd64 Unity Webapps QML component
ii unity-webapps-service 2.5.0~+16.04.20160201-0ubuntu1 amd64 Service for Web Apps integration with the Unity desktop
ii uno-libs3 5.1.4-0ubuntu1 amd64 LibreOffice UNO runtime environment -- public shared libraries
ii unzip 6.0-20ubuntu1 amd64 De-archiver for .zip files
ii update-inetd 4.43 all inetd configuration file updater
ii update-manager 1:16.04.5 all GNOME application that manages apt updates
ii update-manager-core 1:16.04.5 all manage release upgrades
ii update-notifier 3.168.3 amd64 Daemon which notifies about package updates
ii update-notifier-common 3.168.3 all Files shared between update-notifier and other packages
ii upower 0.99.4-2ubuntu0.3 amd64 abstraction for power management
ii upstart 1.13.2-0ubuntu21.1 amd64 event-based init daemon - essential binaries
ii ure 5.1.4-0ubuntu1 amd64 LibreOffice UNO runtime environment

ii ureadahead 0.100.0-19 amd64 Read required files in advance
ii usb-creator-common 0.3.2 amd64 create a startup disk using a CD or disc image (common files)
ii usb-creator-gtk 0.3.2 amd64 create a startup disk using a CD or disc image (for GNOME)
ii usb-modeswitch 2.2.5+repack0-1ubuntu1 amd64 mode switching tool for controlling "flip flop" USB devices
ii usb-modeswitch-data 20151101-1 all mode switching data for usb-modeswitch
ii usbmuxd 1.1.0-2 amd64 USB multiplexor daemon for iPhone and iPod Touch devices
ii usbutils 1:007-4 amd64 Linux USB utilities
ii util-linux 2.27.1-6ubuntu3.2 amd64 miscellaneous system utilities
ii uuid-runtime 2.27.1-6ubuntu3.2 amd64 runtime components for the Universally Unique ID library
ii va-driver-all:amd64 1.7.0-1 amd64 Video Acceleration (VA) API -- driver metapackage
ii vbetool 1.1-3 amd64 run real-mode video BIOS code to alter hardware state
ii vdpau-driver-all:amd64 1.1.1-3ubuntu1 amd64 Video Decode and Presentation API for Unix (driver metapackage)
ii vdpau-va-driver:amd64 0.7.4-5 amd64 VDPAU-based backend for VA API
ii vim 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - enhanced vi editor
ii vim-common 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - Common files
ii vim-runtime 2:7.4.1689-3ubuntu1.2 all Vi IMproved - Runtime files
ii vim-tiny 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - enhanced vi editor - compact version
ii vino 3.8.1-0ubuntu9.1 amd64 VNC server for GNOME
ii virtualbox-5.1 5.1.14-112924~Ubuntu~xenial amd64 Oracle VM VirtualBox
ii wamerican 7.1-1 all American English dictionary words for /usr/share/dict
ii wbritish 7.1-1 all British English dictionary words for /usr/share/dict
ii webapp-container 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web applications container
ii webbrowser-app 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web browser
ii wget 1.17.1-1ubuntu1.1 amd64 retrieves files from the web
ii whiptail 0.52.18-1ubuntu2 amd64 Displays user-friendly dialog boxes from shell scripts

ii whois 5.2.11 amd64 intelligent WHOIS client
ii whoopsie 0.2.52.2 amd64 Ubuntu error tracker submission
ii whoopsie-preferences 0.18 amd64 System preferences for error reporting
ii wireless-regdb 2015.07.20-1ubuntu1 all wireless regulatory database
ii wireless-tools 30~pre9-8ubuntu1 amd64 Tools for manipulating Linux Wireless Extensions
ii witalian 1.7.6 all Italian dictionary words for /usr/share/dict/
ii wpasupplicant 2.4-0ubuntu6 amd64 client support for WPA and WPA2 (IEEE 802.11i)
ii wxcrafter 2.7-1.xenial amd64 gui generator plugin for codelite
ii x11-apps 7.7+5+nmu1ubuntu1 amd64 X applications
ii x11-common 1:7.7+13ubuntu3 all X Window System (X.Org) infrastructure
ii x11-session-utils 7.7+2 amd64 X session utilities
ii x11-utils 7.7+3 amd64 X11 utilities
ii x11-xkb-utils 7.7+2 amd64 X11 XKB utilities
ii x11-xserver-utils 7.7+7 amd64 X server utilities
ii x11proto-composite-dev 1:0.4.2-2 all X11 Composite extension wire protocol
ii x11proto-core-dev 7.0.28-2ubuntu1 all X11 core wire protocol and auxiliary headers
ii x11proto-damage-dev 1:1.2.1-2 all X11 Damage extension wire protocol
ii x11proto-dri2-dev 2.8-2 all X11 DRI2 extension wire protocol
ii x11proto-fixes-dev 1:5.0-2ubuntu2 all X11 Fixes extension wire protocol
ii x11proto-gl-dev 1.4.17-1 all X11 OpenGL extension wire protocol
ii x11proto-input-dev 2.3.1-1 all X11 Input extension wire protocol
ii x11proto-kb-dev 1.0.7-0ubuntu1 all X11 XKB extension wire protocol
ii x11proto-randr-dev 1.5.0-1 all X11 RandR extension wire protocol
ii x11proto-render-dev 2:0.11.1-2 all X11 Render extension wire protocol
ii x11proto-xext-dev 7.3.0-1 all X11 various extension wire protocol
ii x11proto-xf86vidmode-dev 2.3.1-2 all X11 Video Mode extension wire protocol
ii x11proto-xinerama-dev 1.2.1-2 all X11 Xinerama extension

wire protocol
ii xauth 1:1.0.9-1ubuntu2 amd64
X authentication utility
ii xbitmaps 1.1.1-2 all Base X bitmaps
ii xbrlapi 5.3.1-2ubuntu2.1 amd64 Access software for a
blind person using a braille display - xbrlapi
ii xcursor-themes 1.0.4-1 all Base X cursor themes
ii xdg-user-dirs 0.15-2ubuntu6 amd64 tool to manage well
known user directories
ii xdg-user-dirs-gtk 0.10-1ubuntu1 amd64 tool to manage well
known user directories (Gtk extension)
ii xdg-utils 1.1.1-1ubuntu1.16.04.1 all desktop integration
utilities from freedesktop.org
ii xdiagnose 3.8.4.1 all X.org diagnosis tool
ii xfonts-base 1:1.0.4+nmu1 all standard fonts for X
ii xfonts-encodings 1:1.0.4-2 all Encodings for X.Org fonts
ii xfonts-scalable 1:1.0.3-1.1 all scalable fonts for X
ii xfonts-utils 1:7.7+3 amd64 X Window System font
utility programs
ii xinit 1.3.4-3ubuntu0.1 amd64 X server initialisation tool
ii xinput 1.6.2-1
amd64 Runtime configuration and test of XInput devices
ii xkb-data 2.16-1ubuntu1 all X Keyboard Extension
(XKB) configuration data
ii xml-core 0.13+nmu2 all XML infrastructure and
XML catalog file support
ii xorg 1:7.7+13ubuntu3 amd64 X.Org X Window System
ii xorg-docs-core 1:1.7.1-1ubuntu1 all Core documentation for
the X.org X Window System
ii xorg-sgml-doctools 1:1.11-1 all Common tools for building
X.Org SGML documentation
ii xserver-common 2:1.18.4-0ubuntu0.2
all common files used by various X servers
ii xserver-xorg 1:7.7+13ubuntu3 amd64 X.Org X server
ii xserver-xorg-core 2:1.18.4-0ubuntu0.2 amd64 Xorg X server -
core server
ii xserver-xorg-input-all 1:7.7+13ubuntu3 amd64 X.Org X server --
input driver metapackage
ii xserver-xorg-input-evdev 1:2.10.1-1ubuntu2 amd64 X.Org X server --
evdev input driver
ii xserver-xorg-input-synaptics 1.8.2-1ubuntu3 amd64 Synaptics
TouchPad driver for X.Org server
ii xserver-xorg-input-vmmouse 1:13.1.0-1ubuntu2 amd64 X.Org
X server -- VMMouse input driver to use with VMWare
ii xserver-xorg-input-wacom 1:0.32.0-0ubuntu3 amd64 X.Org X server
-- Wacom input driver
ii xserver-xorg-video-all 1:7.7+13ubuntu3 amd64 X.Org X server --
output driver metapackage

ii xserver-xorg-video-amdgpu 1.1.0-1 amd64 X.Org X server -- AMDGPU display driver
ii xserver-xorg-video-ati 1:7.7.0-1 amd64 X.Org X server -- AMD/ATI display driver wrapper
ii xserver-xorg-video-fbdev 1:0.4.4-1build5 amd64 X.Org X server -- fbdev display driver
ii xserver-xorg-video-intel 2:2.99.917+git20160325-1ubuntu1.2 amd64 X.Org X server -- Intel i8xx, i9xx display driver
ii xserver-xorg-video-nouveau 1:1.0.12-1build2 amd64 X.Org X server -- Nouveau display driver
ii xserver-xorg-video-qxl 0.1.4-3ubuntu3 amd64 X.Org X server -- QXL display driver
ii xserver-xorg-video-radeon 1:7.7.0-1 amd64 X.Org X server -- AMD/ATI Radeon display driver
ii xserver-xorg-video-vesa 1:2.3.4-1build2 amd64 X.Org X server -- VESA display driver
ii xserver-xorg-video-vmware 1:13.1.0-2ubuntu3 amd64 X.Org X server -- VMware display driver
ii xterm 322-1ubuntu1 amd64 X terminal emulator
ii xtrans-dev 1.3.5-1 all X transport library (development files)
ii xul-ext-ubufox 3.2-0ubuntu1 all Ubuntu modifications for Firefox
ii xz-utils 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression utilities
ii yelp 3.18.1-1ubuntu4 amd64 Help browser for GNOME
ii yelp-xsl 3.18.1-1 all XSL stylesheets for the yelp help browser
ii zeitgeist-core 0.9.16-0ubuntu4 amd64 event logging framework - engine
ii zeitgeist-datahub 0.9.16-0ubuntu4 amd64 event logging framework - passive logging daemon
ii zenity 3.18.1.1-1ubuntu2 amd64 Display graphical dialog boxes from shell scripts
ii zenity-common 3.18.1.1-1ubuntu2 all Display graphical dialog boxes from shell scripts (common files)
ii zip 3.0-11 amd64 Archiver for .zip files
ii zlib1g:amd64 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - runtime
ii zlib1g:i386 1:1.2.8.dfsg-2ubuntu4 i386 compression library - runtime
ii zlib1g-dev:amd64 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - development

Found in path(s):
* /295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7-zip/295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7/packages.list

1.655 gpgv 2.2.19-3ubuntu2.2

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.656 libgcc-s1 10.5.0-1ubuntu1~20.04

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DRuntime: Runtime Library for the D Programming Language
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1.659 libcom-err 1.45.5-2ubuntu1.1

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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```
#
# This 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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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.660 logsave 1.45.5-2ubuntu1.1

1.660.1 Available under license :

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

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```
#
# This 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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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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    ** NOTE! The following LGPL license applies to the tdb
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```

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This 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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Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10	GNAT version library

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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========

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1.662 libncurses 6.2-0ubuntu2.1

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

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1.663 liblzma 5.2.4-1ubuntu1.1

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: XZ Utils
Upstream-Contact:
Lasse Collin <lasse.collin@tukaani.org>
https://tukaani.org/xz/lists.html
Source:
https://tukaani.org/xz
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Comment:
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1.665 lsb-base 11.1.0ubuntu2

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1.666 libext2fs2 1.45.5-2ubuntu1.1

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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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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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"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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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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1.667 libdebconfclient0 0.251ubuntu1

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DRuntime: Runtime Library for the D Programming Language
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1.669 libss 1.45.5-2ubuntu1.1

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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AES in libhcrypto

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rijndael-alg-fst.c

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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AES in libhcrypto

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@version 3.0 (December 2000)

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

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

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

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

lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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  lib/gssapi/mechglue/g_acquire_cred.c
  lib/gssapi/mechglue/g_canon_name.c
  lib/gssapi/mechglue/g_compare_name.c
  lib/gssapi/mechglue/g_context_time.c
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  lib/gssapi/mechglue/g_dup_name.c
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  lib/gssapi/mechglue/g_imp_name.c
  lib/gssapi/mechglue/g_imp_sec_context.c
  lib/gssapi/mechglue/g_init_sec_context.c
  lib/gssapi/mechglue/g_initialize.c
  lib/gssapi/mechglue/g_inquire_context.c
  lib/gssapi/mechglue/g_inquire_cred.c
  lib/gssapi/mechglue/g_inquire_names.c
  lib/gssapi/mechglue/g_process_context.c
  lib/gssapi/mechglue/g_rel_buffer.c
  lib/gssapi/mechglue/g_rel_cred.c
  lib/gssapi/mechglue/g_rel_name.c
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  lib/gssapi/mechglue/g_seal.c
  lib/gssapi/mechglue/g_sign.c
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  lib/gssapi/mechglue/g_unseal.c
  lib/gssapi/mechglue/g_userok.c
  lib/gssapi/mechglue/g_utils.c
  lib/gssapi/mechglue/g_verify.c
  lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
  lib/gssapi/mechglue/oid_ops.c
  lib/gssapi/spnego/gssapiP_spnego.h
  lib/gssapi/spnego/spnego_mech.c

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  include/iprop_hdr.h

kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.696 libldap 2.4.49+dfsg-2ubuntu1.10

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1.697 python3.8-minimal 3.8.10-0ubuntu1~20.04.9

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

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

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

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1.3 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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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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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	PSF	yes

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1.701 libapparmor 2.13.3-7ubuntu5.3

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1.706 xxhash 2.1.2

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1.707 go-connections 0.4.0

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1.710 color 1.13.0

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1.712 mergo 0.3.12

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

1.713 gopkg.in-inf 0.9.1

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1.715 xstrings 1.3.2

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1.716 go-md2man 2.0.2

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1.717 go-cache 2.1.0+incompatible

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1.718 go-autorest 0.11.18

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1.719 lib-pq 1.10.6

1.719.1 Available under license :

```
//go:build go1.10
// +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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1.720 go-jmespath 0.4.0

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1.721 apiextensions-apiserver 0.25.0

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1.722 yaml 1.3.0

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1.723 protobuf 1.28.1

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1.724 structured-merge-diff 4.2.3

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1.725 six 1.14.0

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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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