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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

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1.2 vixie-cron 3.0pl1-136ubuntu1

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.
Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `-u' commands
under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
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``

``$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
``

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/* $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $ */

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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\"

\"$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
\"

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4,[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron/tabs can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:
Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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1.3 gcc-defaults 9.3.0-1ubuntu2
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35. string_scorer version 0.1.20 (https://github.com/joshaven/string_score)
36. sublimehq/Packages (https://github.com/sublimehq/Packages)
37. SublimeText/PowerShell (https://github.com/SublimeText/PowerShell)
38. textmate/asp.vb.net.tmbundle (https://github.com/textmate/asp.vb.net.tmbundle)
39. textmate/c.tmbundle (https://github.com/textmate/c.tmbundle)
40. textmate/diff.tmbundle (https://github.com/textmate/diff.tmbundle)
41. textmate/git.tmbundle (https://github.com/textmate/git.tmbundle)
42. textmate/groovy.tmbundle (https://github.com/textmate/groovy.tmbundle)
43. textmate/html.tmbundle (https://github.com/textmate/html.tmbundle)
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1.5 webencodings 0.5.1
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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
from setuptools import setup, find_packages
import io
import os
import re

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

LONG_DESCRIPTION = io.open(os.path.join(os.path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
    ],
)
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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```
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~
Regenerate the webencodings.labels module.

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```

```
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ["\n
```
webencodings.labels
~~~~~~~~~~~~~~~~~~~
Map encoding labels to their name.

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```
```
# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]

    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%%s %%s,%%n %% % (label, " " * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('')
    return ".\n".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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* Python 2.6+ and 3.3+
In order to be compatible with legacy web content when interpreting something like "Content-Type: text/html; charset=latin1", tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, "US-ASCII" and "iso-8859-1" on the web are actually aliases for "windows-1252", and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
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Classifier: Topic :: Internet :: WWW/HTTP

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

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python-webencodings

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

* Latest documentation: http://packages.python.org/webencodings/
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This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

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1.6 cffi 1.15.0

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gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/tornado_http.py
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gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/sqlalchemy.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/__init__.py
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gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/psycopg2.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/local_span.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/strict_redis.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/http_server.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/_singleton.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
gz/opentracing_instrumentation-2.4.0/opentracing_instrumentation/client_hooks/requests.py
* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-tar-
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Metadata-Version: 1.1
Name: opentracing_instrumentation
Version: 2.4.0
Summary: Tracing Instrumentation using OpenTracing API (http://opentracing.io)
Home-page: https://github.com/uber-common/opentracing-python-instrumentation
Author: Yuri Shkuro
Author-email: ys@uber.com
License: MIT
Description-Content-Type: UNKNOWN
Description: UNKNOWN
Keywords: opentracing
Platform: any
Classifier: Development Status :: 3 - Alpha
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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* /opt/cola/permits/1112217922_1607050028.33/0/opentracing-instrumentation-2-4-0-1-target/gz/opentracing_instrumentation-2.4.0(PKG-INFO)
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Metadata-Version: 1.1
Name: opentracing-instrumentation
Version: 2.4.0
Summary: Tracing Instrumentation using OpenTracing API (http://opentracing.io)
Home-page: https://github.com/uber-common/opentracing-python-instrumentation
Author: Yuri Shkuro
1.9 commons-compress 1.20

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1.10 javax-inject 2.2.0-b21

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* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Named.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Inject.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Qualifier.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Singleton.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Scope.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/package-info.java
* /opt/cola/permits/1112466749_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Provider.java
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1.11 distro-info-data 0.43ubuntu1.9
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Upstream-Name: distro-info-data
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1.14 backoff 4.1.1

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1.15 python-json-logger 0.1.5

1.15.1 Available under license:

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Metadata-Version: 1.1
Name: python-json-logger
Version: 0.1.5
Summary: A python library adding a json log formatter
Home-page: http://github.com/madzak/python-json-logger
Author: Zakaria Zajac
Author-email: zak@madzak.com
License: BSD
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.1
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Topic :: System :: Logging

Found in path(s):
* /opt/cola/permits/1112217838_1607050024.56/0/python-json-logger-0-1-5-1-tar-gz/python-json-logger-0.1.5/src/python_json_logger.egg-info/PKG-INFO
* /opt/cola/permits/1112217838_1607050024.56/0/python-json-logger-0-1-5-1-tar-gz/python-json-logger-0.1.5/PKG-INFO

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

import sys
from setuptools import setup, find_packages

if sys.version_info < (2, 6):
    print(sys.stderr, "[\]: need Python 2.6 or later.".format(sys.argv[0]))
    print(sys.stderr, "Your Python is {}".format(sys.version))
    sys.exit(1)
setup(
    name="python-json-logger",
    version="0.1.5",
    url="http://github.com/madzak/python-json-logger",
    license="BSD",
    description="A python library adding a json log formatter",
    author="Zakaria Zajac",
    author_email="zak@madzak.com",
    package_dir={":": 'src'},
    packages=find_packages("src", exclude="tests"),
    test_suite="tests.tests",
    install_requires=['setuptools'],
    classifiers=[
        'Development Status :: 3 - Alpha',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.1',
        'Programming Language :: Python :: 3.2',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Topic :: System :: Logging',
    ],
)
)

Found in path(s):
* /opt/cola/permits/1112217838_1607050024.56/0/python-json-logger-0.1-5-1-tar-gz/python-json-logger-0.1.5/setup.py

1.16 commons-digester 2.1
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1.17 hashicorp-uuid 1.0.2

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1.18 logr 0.4.0

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1.19 xml-rpc 0.0.0-20170708154548-ce4a1a486c03
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1.20 python-etcd 0.4.5
1.20.1 Available under license:
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Metadata-Version: 1.1
Name: python-etcd
Version: 0.4.5
Summary: A python client for etcd
Home-page: http://github.com/jplana/python-etcd
Author: Jose Plana
Author-email: jplana@gmail.com
License: MIT
Description: python-etcd documentation

A python client for Etcd https://github.com/coreos/etcd
Official documentation: http://python-etcd.readthedocs.org/

.. image:: https://travis-ci.org/jplana/python-etcd.png?branch=master
   :target: https://travis-ci.org/jplana/python-etcd

.. image:: https://coveralls.io/repos/jplana/python-etcd/badge.svg?branch=master&service=github
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Installation
------------

Pre-requirements
~~~~~~~~~~~~~~~~

This version of python-etcd will only work correctly with the etcd server version 2.0.x or later. If you are running an older version of etcd, please use python-etcd 0.3.3 or earlier.

This client is known to work with python 2.7 and with python 3.3 or above. It is not tested or expected to work in more outdated versions of python.

From source
~~~~~~~~~~~

.. code:: bash

   $ python setup.py install

Usage
-----

The basic methods of the client have changed compared to previous versions, to reflect the new API structure; however a compatibility layer has been maintained so that you don't necessarily need to rewrite all your existing code.

Create a client object
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

   import etcd

   client = etcd.Client()  # this will create a client against etcd server running on localhost on port 4001
   client = etcd.Client(port=4002)
   client = etcd.Client(host='127.0.0.1', port=4003)
   client = etcd.Client(host=('127.0.0.1', 4001), ('127.0.0.1', 4002), ('127.0.0.1', 4003))
   client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False)  # wont let you run sensitive commands on non-leader machines, default is true
# If you have defined a SRV record for `_etcd._tcp.example.com` pointing to the clients
client = etcd.Client(srv_domain='example.com', protocol='https')

# create a client against https://api.example.com:443/etcd
client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')

Write a key
~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n1', 1)

    # with ttl
    client.write('/nodes/n2', 2, ttl=4)  # sets the ttl to 4 seconds
    client.set('/nodes/n2', 1) # Equivalent, for compatibility reasons.

Read a key
~~~~~~~~~~

.. code:: python

    client.read('/nodes/n2').value
    client.read('/nodes', recursive = True) #get all the values of a directory, recursively.
    client.get('/nodes/n2').value

    # raises etcd.EtcdKeyNotFound when key not found
    try:
        client.read('/invalid/path')
    except etcd.EtcdKeyNotFound:
        # do something
        print "error"

Delete a key
~~~~~~~~~~~~

.. code:: python

    client.delete('/nodes/n1')

Atomic Compare and Swap
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n2', 2, prevValue = 4) # will set /nodes/n2 ’s value to 2 only if its previous value was 4
    and
    client.write('/nodes/n2', 2, prevExist = False) # will set /nodes/n2 ’s value to 2 only if the key did not exist before
You can also atomically update a result:

```python
result = client.read('/foo')
print(result.value) # bar
result.value += u'bar'
updated = client.update(result) # if any other client wrote '/foo' in the meantime this will fail
print(updated.value) # barbar
```

Watch a key
~~~~~~~~~~~~

```python
client.read('/nodes/n1', wait = True) # will wait till the key is changed, and return once its changed
client.read('/nodes/n1', wait = True, timeout=30) # will wait till the key is changed, and return once its changed, or exit with an exception after 30 seconds.
client.read('/nodes/n1', wait = True, waitIndex = 10) # get all changes on this key starting from index 10
client.watch('/nodes/n1') #equivalent to client.read('/nodes/n1', wait = True)
client.watch('/nodes/n1', index = 10)
```

Refreshing key TTL
~~~~~~~~~~~~~~~~~~~

(Since etcd 2.3.0) Keys in etcd can be refreshed without notifying current watchers.

This can be achieved by setting the refresh to true when updating a TTL.

You cannot update the value of a key when refreshing it.

```python
client.write('/nodes/n1', 'value', ttl=30)  # sets the ttl to 30 seconds
client.refresh('/nodes/n1', ttl=600)  # refresh ttl to 600 seconds, without notifying current watchers
```

Locking module
~~~~~~~~~~~~~~

```python
# Initialize the lock object:
# NOTE: this does not acquire a lock yet
client = etcd.Client()
```

---

Open Source Used In DNAC System Engineering release/octomore-intg 171
# Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
lock = etcd.Lock(client, 'my_lock_name')

# Use the lock object:
lock.acquire(blocking=True, # will block until the lock is acquired
    lock_ttl=None) # lock will live until we release it
lock.is_acquired # True
lock.acquire(lock_ttl=60) # renew a lock
lock.release() # release an existing lock
lock.is_acquired # False

# The lock object may also be used as a context manager:
client = etcd.Client()
with etcd.Lock(client, 'customer1') as my_lock:
    do_stuff()
    my_lock.is_acquired # True
    my_lock.acquire(lock_ttl=60)
my_lock.is_acquired # False

Get machines in the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    client.machines

Get leader of the cluster
~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    client.leader

Generate a sequential key in a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    x = client.write("/dir/name", "value", append=True)
    print("generated key: " + x.key)
    print("stored value: " + x.value)

List contents of a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python
#stick a couple values in the directory
client.write("/dir/name", "value1", append=True)
client.write("/dir/name", "value2", append=True)

directory = client.get("/dir/name")

# loop through directory children
for result in directory.children:
    print(result.key + ": " + result.value)

# or just get the first child value
print(directory.children.next().value)

Development setup
------------------

To create a buildout,

.. code:: bash

    $ python bootstrap.py
    $ bin/buildout

to test you should have etcd available in your system path:

.. code:: bash

    $ bin/test

to generate documentation,

.. code:: bash

    $ cd docs
    $ make

Release HOWTO
--------------

To make a release

1) Update release date/version in NEWS.txt and setup.py
2) Run 'python setup.py sdist'
3) Test the generated source distribution in dist/
4) Upload to PyPI: 'python setup.py sdist register upload'
News
=====
0.4.5
-----
*Release date: 3-Mar-2017*

* Remove dnspython2/3 requirement
* Change property name setter in lock
* Fixed acl tests
* Added version/cluster_version properties to client
* Fixes in lock when used as context manager
* Fixed improper usage of urllib3 exceptions
* Minor fixes for error classes
* In lock return modifiedIndex to watch changes
* In lock fix context manager exception handling
* Improvements to the documentation
* Remove _base_uri only after refresh from cluster
* Avoid double update of _machines_cache

0.4.4
-----
*Release date: 10-Jan-2017*

* Fix some tests
* Use sys.version_info tuple, instead of named tuple
* Improve & fix documentation
* Fix python3 specific problem when blocking on contented lock
* Add refresh key method
* Add custom lock prefix support

0.4.3
-----
*Release date: 14-Dec-2015*

* Fix check for parameters in case of connection error
* Python 3.5 compatibility and general python3 cleanups
* Added authentication and module for managing ACLs
* Added srv record-based DNS discovery
* Fixed (again) logging of cluster id changes
* Fixed leader lookup
* Properly retry request on exception
* Client: clean up open connections when deleting

0.4.2
-----
*Release date: 8-Oct-2015*
* Fixed lock documentation
* Fixed lock sequences due to etcd 2.2 change
* Better exception management during response processing
* Fixed logging of cluster ID changes
* Fixed subtree results
* Do not check cluster ID if etcd responses don't contain the ID
* Added a cause to EtcdConnectionFailed

0.4.1
-----
*Release date: 1-Aug-2015*

* Added client-side leader election
* Added stats endpoints
* Added logging
* Better exception handling
* Check for cluster ID on each request
* Added etcd.Client.members and fixed etcd.Client.leader
* Removed locking and election etcd support
* Allow the use of etcd proxies with reconnections
* Implement pop: Remove key from etc and return the corresponding value.
* Eternal watcher can be now recursive
* Fix etcd.Client machines
* Do not send parameters with `None` value to etcd
* Support ttl=0 in write.
* Moved pyOpenSSL into test requirements.
* Always set certificate information so redirects from http to https work.

0.3.3
-----
*Release date: 12-Apr-2015*

* Forward leaves_only value in get_subtree() recursive calls
* Fix README prevExists->prevExist
* Added configurable version_prefix
* Added support for recursive watch
* Better error handling support (more detailed exceptions)
* Fixed some unreliable tests

0.3.2
-----

*Release date: 4-Aug-2014*
* Fixed generated documentation version.

0.3.1
-----

*Release date: 4-Aug-2014*

* Added consisten read option
* Fixed timeout parameter in read()
* Added atomic delete parameter support
* Fixed delete behaviour
* Added update method that allows atomic updated on results
* Fixed checks on write()
* Added leaves generator to EtcdResult and get_subtree for recursive fetch
* Added etcd_index to EtcdResult
* Changed eternal -> eternal
* Updated urllib3 & pyOpenSSL libraries
* Several performance fixes
* Better parsing of etcd_index and raft_index
* Removed duplicated tests
* Added several integration and unit tests
* Use etcd v0.3.0 in travis
* Execute test using `python setup.py test` and nose

0.3.0
-----

*Release date: 18-Jan-2014*

* API v2 support
* Python 3.3 compatibility

0.2.1
-----

*Release data: 30-Nov-2013*

* SSL support
* Added support for subdirectories in results.
* Improve test
* Added support for reconnections, allowing death node tolerance.

0.2.0
-----
*Release date: 30-Sep-2013*

* Allow fetching of multiple keys (sub-nodes)

0.1

---

*Release date: 18-Sep-2013*

* Initial release

Keywords: etcd raft distributed log api client
Platform: UNKNOWN
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: Software Development :: Libraries
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Database :: Front-Ends

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/src/python_etcd.egg-info/PKG-INFO
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/PKG-INFO
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    from setuptools import setup, find_packages
    import sys, os

    here = os.path.abspath(os.path.dirname(__file__))
    README = open(os.path.join(here, 'README.rst')).read()
    NEWS = open(os.path.join(here, 'NEWS.txt')).read()

    version = '0.4.5'

    install_requires = [
        'urllib3>=1.7.1',
        'dnspython>=1.13.0'
    ]

    test_requires = [
        'mock',
        'nose',
        'pyOpenSSL>=0.14'
    ]
setup(
    name='python-etcd',
    version=version,
    description="A python client for etcd",
    long_description=README + \n\n+ NEWS,
    classifiers=[
        "Topic :: System :: Distributed Computing",
        "Topic :: Software Development :: Libraries",
        "License :: OSI Approved :: MIT License",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
        "Topic :: Database :: Front-Ends",
    ],
    keywords='etcd raft distributed log api client',
    author='Jose Plana',
    author_email='jplana@gmail.com',
    url='http://github.com/jplana/python-etcd',
    license='MIT',
    packages=find_packages('src'),
    package_dir = {'': 'src'},
    include_package_data=True,
    zip_safe=False,
    install_requires=install_requires,
    tests_require=test_requires,
    test_suite='nose.collector',
)

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0.4.5-1-tar-gz/python-etcd-0.4.5/setup.py

1.21 go-md2man 2.0.0
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1.22 go-connlimit 0.3.0

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1.24 go-memdb 1.3.1

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1.26 proto-otlp 0.9.0

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---

A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
---

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
    }
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
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    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110765725_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py
No license file was found, but licenses were detected in source scan.

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1.29 glib-networking 2.64.2-1build1

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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_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
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### 1.31 klibc 2.0.7-1ubuntu5

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Py

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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<p>| Release | Derived from | Year | Owner | GPL-compatible? | (1) |</p>
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cia-bundle.crt -- Bundle of CA Root Certificates

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

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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1.36 libalgorithm-diff-perl 1.19.03-2

1.36.1 Available under license :

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#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
# # This program is free software; you can redistribute it and/or modify it
# # under the same terms as Perl itself.
# # Altered to output in `context diff' format (but without context)
# # September 1998 Christian Murphy (cpm@muc.de)
# # Command-line arguments and context lines feature added
# # September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("Usage");
bag("Usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ''; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ''; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
} else {
  $Context_Lines = ''; # by default, do context diff, not old diff
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");

my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    }
} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(@f1, @f2);
exit 1;

# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
}
sub new {  
    # Arg1 is output from &LCS::diff (which corresponds to one Block)  
    # Arg2 is the number of items (lines, e.g.,) of context around each block  
    #  
    # This subroutine changes $File-Length-Difference  
    #  
    # Fields in a Hunk:  
    # blocks - a list of Block objects  
    # start - index in file 1 where first block of the hunk starts  
    # end - index in file 1 where last block of the hunk ends  
    #  
    # Variables:  
    # before_diff - how much longer file 2 is than file 1 due to all hunks  
    # until but NOT including this one  
    # after_diff - difference due to all hunks including this one  
    # my ($class, $piece, $context_items) = @_;  

    my $block = new Block ($piece); # this modifies $FLD!  

    my $before_diff = $File-Length-Difference; # BEFORE this hunk  
    my $after_diff = $before_diff + $block->{"length_diff"};  
    $File-Length-Difference += $block->{"length_diff"};  

    # @remove_array and @insert_array hold the items to insert and remove  
    # Save the start & beginning of each array. If the array doesn't exist  
    # though (e.g., we're only adding items in this block), then figure  
    # out the line number based on the line number of the other file and  
    # the current difference in file lengths  
    my @remove_array = $block->remove;  
    my @insert_array = $block->insert;  

    my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);  

    $a1 = @remove_array ? $remove_array[0]->{"item_no"} : -1;  
    $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;  
    $b1 = @insert_array ? $insert_array[0]->{"item_no"} : -1;  
    $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;  

    $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;  
    $end1 = $a2 == -1 ? $b2 - $after_diff : $a2;  
    $start2 = $b1 == -1 ? $a1 + $before_diff : $b1;  
    $end2 = $b2 == -1 ? $a2 + $after_diff : $b2;  

    # At first, a hunk will have just one Block in it  
    my $hunk = {  
        "start1" => $start1,  
        "start2" => $start2,  
        "end1" => $end1,  
        "end2" => $end2,  
    }

}
"blocks" => [{$block},
    ];
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
                  $#f1 - $end1 :
                  $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"}) <= 1 ||
               $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};
unshift (@{ $hunk->"blocks" }, @{ $oldhunk->"blocks" });


# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
  if    (defined $main::opt_u) {&output_unified_diff(@_)}
  elsif (defined $main::opt_c) {&output_context_diff(@_)}
  else {die "unknown diff"}
}

sub output_unified_diff {
  my ($hunk, $fileref1, $fileref2) = @_; 
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@

  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  # We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  # We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $slow = $hunk->"start1";
  my $shi = $hunk->"end1";
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map { s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{ $hunk->"blocks" }) {
    foreach my $item (@$block) {
      my $op = $item->"sign"; # -
      my $offset = $item->"item_no" - $low + $num_added;
      $outlist[$offset] =~ s/^/$op/;
      $num_removed++;
    }
  }

  foreach my $item (@$block) {
    my $op = $item->"sign"; # +
    my $i = $item->"item_no";
    my $offset = $i - $hunk->"start2" + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]";)
    $num_added++;
  }
map {s/$/\n/} @outlist; # add \n's
print @outlist;

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;
    my @blocklist;

    print "***************
";
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    print "***************\n";
    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****\n";
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    if (@blocklist = grep {$_->remove} @{$hunk->"blocks"}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/\n/} @outlist; # add \n's
        print @outlist;
    }

    print "--- $range2 ----\n";
    $low = $hunk->"start2";
    $hi = $hunk->"end2";
    if (@blocklist = grep {$_->insert} @{$hunk->"blocks"}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # + or !
            foreach my $item ($block->insert) {
                $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/\n/} @outlist; # add \n's
        print @outlist;
    }
}
print @outlist;

sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($hunk, $flag) = @_;  
    my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++;  # index from 1, not zero
    my $range = ($start < $end) ? "$start,$end" : $end;
    return $range;
}

sub unified_range {
    # Generate a range of item numbers to print for unified diff
    # Print number where block starts, followed by number of lines in the block
    # (don't print number of lines if it's 1)
    my ($hunk, $flag) = @_;  
    my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++;  # index from 1, not zero
    my $length = $end - $start + 1;   
    my $first = $length < 2 ? $end : $start;  # strange, but correct...
    my $range = $length== 1 ? $first : "$first,$length";
    return $range;
}

} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
#
package Block;

sub new {
    # Input is a chunk from &Algorithm::LCS::diff
    # Fields in a block:
    # length_diff - how much longer file 2 is than file 1 due to this block
    # Each change has:
    # sign        - '+' for insert, '-' for remove
    # item_no     - number of the item in the file (e.g., line number)
    # We don't bother storing the text of the item
#
    my ($class,$chunk) = @_;  
    my @changes = ();

    # This just turns each change into a hash.
    foreach my $item (@$chunk) {
        #
        #
    }

}
my ($sign, $item_no, $text) = @$item;
my $hashref = { "sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}

my $block = { "changes" => \@changes };  
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;

# LOW LEVEL FUNCTIONS
sub op {  
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;

$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}

# Returns a list of the changes in this block that remove items  
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq ' -' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq ' +' } @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl
#!/usr/bin/perl
#
# 'Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
# # This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%-4d$sign %s
", $lineno+1, $text;
    }

    print "--------
";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

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---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml

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

=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {

next if $diff->Same();
my $sep = "
$diff->Get(qw( Min1 Max1 Max2 ));
} elsif( ! $diff->Items(1) ) {
  printf "%da%d,%d\n",
  $diff->Get(qw( Max1 Min2 Max2 ));
} else {
  $sep = "---\n";
  printf "%d,%de%d,%d\n",
  $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_" for $diff->Items(1);
print $sep;
print "> $_" for $diff->Items(2);
}

# Alternate interfaces:
use Algorithm::Diff qw(
  LCS LCS_length LCSidx
  diff sdiff compact_diff
  traverse_sequences traverse_balanced );

@lcs   = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );
( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:
@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(diff( \@seq1, \@seq2 );

\@seq1,
\@seq2,
{ MATCH => \&callback1,
  DISCARD_A => \&callback2,
  DISCARD_B => \&callback3,
},

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traverse_balanced(
  \@seq1,
  \@seq2,
  {   MATCH     => \&callback1,
       DISCARD_A => \&callback2,
       DISCARD_B => \&callback3,
       CHANGE    => \&callback4,
  },
  \&key_generator,
  @extra_args,
);
This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
    \text{a b y c z p d q} \\
    \text{a b c a x b y c z}
\end{align*}
\]

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

\[
\begin{align*}
    \text{a b y c z p d q} \\
    \text{a b c a x b y c z}
\end{align*}
\]

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a b y c z>:

\[
\begin{align*}
    \text{a b y c z p d q} \\
    \text{a b c a x b y c z}
\end{align*}
\]

or

\[
\begin{align*}
    \text{a b y c z p d q} \\
    \text{a b c a x b y c z}
\end{align*}
\]

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\[
\begin{align*}
    @\text{lcs} & = \text{LCS}(@\text{seq1}, @\text{seq2}); \\
    $\text{lcsref} & = \text{LCS}(@\text{seq1}, @\text{seq2});
\end{align*}
\]
C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

    @lcs   = LCS( \@seq1, \@seq2, \&keyGen, @args );
    $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

    my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
    my @list1 = @seq1[ @$idx1 ];
    my @list2 = @seq2[ @$idx2 ];
    my @list3 = LCS( \@seq1, \@seq2 );

=head2 C<new>

    $diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
    $diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:

[ ] Encloses optional arguments
Method summary:

$subj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos  = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that
is "reset" (not currently pointing at any hunk).

@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same
as if no argument were passed in.

=item C<Next>

$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts
out "reset", which means it isn't pointing at any hunk. If the object
is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number
between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth
previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move
to the last hunk.
The position returned by \texttt{C\textless Prev\textgreater} is relative to the \texttt{I\textless end\textgreater} of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

\texttt{=item C\textless Reset\textgreater}

\begin{verbatim}
$diff->Reset();   # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk
\end{verbatim}

\texttt{C\textless Reset\textgreater} returns the object, so, for example, you could use \texttt{C\textless\textless $diff->Reset()->Next(-1) \textgreater\textgreater} to get the number of hunks.

\texttt{=item C\textless Copy\textgreater}

\begin{verbatim}
$copy = $diff->Copy( $newPos, $newBase );
\end{verbatim}

\texttt{C\textless Copy\textgreater} returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But \texttt{C\textless Copy\textgreater} takes an optional first argument to set the new position, so the following three snippets are equivalent:

\begin{verbatim}
$copy = $diff->Copy($pos);
$copy = $diff->Copy();
$copy->Reset($pos);
$copy = $diff->Copy()->Reset($pos);
\end{verbatim}

\texttt{C\textless Copy\textgreater} takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

\begin{verbatim}
$copy = $diff->Copy();
$copy->Base( 0 );
$copy = $diff->Copy(undef,0);
\end{verbatim}

Here are two equivalent way to get a "reset" copy:

\begin{verbatim}
$copy = $diff->Copy(0);
$copy = $diff->Copy()->Reset();
\end{verbatim}
C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)> . This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=over 2

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=over 1

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=back

=over 0

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=over

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);
C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).

If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the
base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min($seqNum, $base);

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?\d+)?(min|max)[12]$/i
/^((range[12]|same|diff|base))/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )

@lcs = LCS($prep, $seq[$i]);
    # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

$prep = prepare(
    \@seq1, \&keyGen);
for $i ( 0 .. 10_000 )
{
    @lcs = LCS($seq[$i], $prep, \&keyGen);
        # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

@diffs    = diff(\@seq1, \@seq2);
$diffs_ref = diff(\@seq1, \@seq2);

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

    a b c e h j l m n p
    b c d e f j k l m r s t

would produce the following list:

    ( [ '−', 0, 'a' ],
        [ '−', 4, 'b' ],
        [ '+', 2, 'd' ],
        [ '+', 4, 'f' ],
        [ '+', 4, 'j' ],
        [ '+', 4, 'k' ],
        [ '+', 4, 'l' ],
        [ '+', 4, 'r' ],
        [ '+', 4, 's' ],
        [ '+', 4, 't' ] )

[ [ '+', 6, 'k' ] ],
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.
Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.

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An C<diff> of the following two sequences:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

results in

```
( [ '-', 'a', ''  ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', 'd', 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'f', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', 'k', 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', 't', 't' ],
)
```

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<diff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
#   @a      @b       @a      @b
#  start   start   values   values
(   0,    0, # =
  0,  0, # a !
  1,  0, # b c = b c
  3,  2, # ! d
  3,  3, # e = e
  4,  4, # f ! h
  5,  5, # j = j
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair  2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:
And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 (‘a’) from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.
C<traverse_sequences> used to be the most general facility provided by
this module (the new OO interface is more powerful and much easier to
use).

Imagine that there are two arrows. Arrow A points to an element of
sequence A, and arrow B points to an element of the sequence B.
Initially, the arrows point to the first elements of the respective
sequences. C<traverse_sequences> will advance the arrows through the
sequences one element at a time, calling an appropriate user-specified
callback function before each advance. It will advance the arrows in
such a way that if there are equal elements C$A[si]$ and C$B[sj]$
which are equal and which are part of the LCS, there will be some moment
during the execution of C<traverse_sequences> when arrow A is pointing
to C$A[si]$ and arrow B is pointing to C$B[sj]$. When this happens,
C<traverse_sequences> will call the C.MATCH<callback function and then
it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence
that is not part of the LCS. C<traverse_sequences> will advance that
arrow and will call the C.<DISCARD_A> or the C.<DISCARD_B> callback,
depending on which arrow it advanced. If both arrows point to elements
that are not part of the LCS, then C<traverse_sequences> will advance
one of them and call the appropriate callback, but it is not specified
which it will call.

The arguments to C<traverse_sequences> are the two sequences to
traverse, and a hash which specifies the callback functions, like this:

```plaintext
traverse_sequences(
    @seq1, @seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least
the indices of the two arrows as their arguments. They are not expected
to return any values. If a callback is omitted from the table, it is
not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the
corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does,
C<traverse_sequences> will call the C<A_FINISHED> callback when it
advances arrow B, if there is such a function; if not it will call
C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their
respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't
need a custom key generation function, you can get the default by
passing undef:

traverse_sequences(
   \@seq1, \@seq2,
   {   MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
   },
   undef, # default key-gen
   $myArgument1,
   $myArgument2,
   $myArgument3,
);

C<traverse_sequences> does not have a useful return value; you are
expected to plug in the appropriate behavior with the callback
functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

traverse_balanced(
   \@seq1, \@seq2,
   {   MATCH => $callback_1,
DISCARD_A => $callback_2,
DISCARD_B => $callback_3,
CHANGE    => $callback_4,

);  

If no $\text{CHANGE}$ callback is specified, $\text{traverse_balanced}$
will map $\text{CHANGE}$ events to $\text{DISCARD_A}$ and $\text{DISCARD_B}$ actions,
therefore resulting in a similar behaviour as $\text{traverse_sequences}$
with different order of events.

$\text{traverse_balanced}$ might be a bit slower than $\text{traverse_sequences}$,
noticeable only while processing huge amounts of data.

The $\text{sdiff}$ function of this module
is implemented as call to $\text{traverse_balanced}$.

$\text{traverse_balanced}$ does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a
$\text{CODE}$ reference to a key generating (hashing) function that should return
a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should
be the same (and the other way around). If no key generation function
is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys
using the default stringizing operator "".

Where this is important is when you're comparing something other than
strings. If it is the case that you have multiple different objects
that should be considered to be equal, you should supply a key
generation function. Otherwise, you have to make sure that your arrays
contain unique references.

For instance, consider this example:

package Person;

sub new
{
  my $package = shift;
  return bless { name => "," , ssn => "", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted
into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN)
would be seen as different objects. If you wanted them to be considered
equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and
so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function
if you wish.

=head1 ERROR CHECKING
If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/Manchester/Manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.
1.37 afero 1.0.5

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1.38 go-hclog 0.14.1
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[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
error
ignore:The loop argument:DeprecationWarning:asyncio[.base_events]:542

[coverage:run]
branch = True
source =
jinja2
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

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Name: Jinja2
Version: 3.0.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

----------

Install and update using `pip`:

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

{ % extends "base.html" % }
{ % block title %}Members{ % endblock %}
{ % block content %}
<ul>
{ % for user in users %}
        <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{ % endfor %}
</ul>
{ % endblock %}

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1.43 x-sync 0.0.0-20210220032951-036812b2e83c

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1.44 importlib-resources 5.4.0

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1.45 commons-validator 1.7

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1.46 backports.zoneinfo 0.2.1

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1.47 jaeger-client 3.8.0

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We gratefully welcome improvements to documentation as well as to code.

## Developing

Jaeger Python client currently only supports Python 2.7.

This repository uses [virtualenv](https://pypi.python.org/pypi/virtualenv) and `pip` to manage dependencies. To install all dependencies, run:

1. `virtualenv env`
2. `source env/bin/activate`
3. `make bootstrap`
4. `make test`

### pycurl

On MacOS you may get an error:

```
```
ImportError: pycurl: libcurl link-time ssl backend (openssl) is different from compile-time ssl backend (none/other)
```

It can be fixed with:

```
```
pip uninstall pycurl
pip install --install-option="--with-openssl" --install-option="--openssl-dir=/usr/local/opt/openssl" pycurl
```
## Making A Change

*Before making any significant changes, please [open an issue](https://github.com/jaegertracing/jaeger-client-python/issues).*
Discussing your proposed changes ahead of time will make the contribution process smooth for everyone.

Once we've discussed your changes and you've got your code ready, make sure that tests are passing (`make test`) and open your pull request.
Your pull request is most likely to be accepted if it:

* Includes tests for new functionality.
* Has a [good commit message](http://tbaggery.com/2008/04/19/a-note-about-git-commit-messages.html).
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```}

then you just add a line to every git commit message:

```
Signed-off-by: Joe Smith <joe@gmail.com>
```

using your real name (sorry, no pseudonyms or anonymous contributions.)
You can add the sign off when creating the git commit via `git commit -s`.

If you want this to be automatic you can set up some aliases:

```bash
---
git config --add alias.amend "commit -s --amend"
git config --add alias.c "commit -s"
---
```

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* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_metrics.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/span_context.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/endtoend.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_local_agent_net.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_codecs.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/local_agent_net.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_sampler.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/reporter.py
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* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3.8.0.tar.gz/jaeger-client-3.8.0/tests/test_span_context.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3.8.0.tar.gz/jaeger-client-3.8.0/jaeger_client/rate_limiter.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3.8.0.tar.gz/jaeger-client-3.8.0/jaeger_client/ioloop_util.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3.8.0.tar.gz/jaeger-client-3.8.0/tests/test_TUDPTransport.py
* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3.8.0.tar.gz/jaeger-client-3.8.0/tests/test_utils.py
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1.50 gofuzz 1.1.0

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Gocheck - A rich testing framework for Go

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netifaces 0.10.4
==============

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?
It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

tar xzvf netifaces-0.10.4.tar.gz
cd netifaces-0.10.4
python setup.py install

Once that's done, you'll need to start Python and do something like the following:::

>>> import netifaces

Then if you enter

>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:::

{ 18: [...], 2: [...], 30: [...] }

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet
addresses), and 30 is `"AF_INET6"` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `"AF_INET"` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
```

```python
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for *the* address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do
Note that this may not be available on platforms without getifaddrs(), unless
they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the
address; it's unlikely that you'll see anything else with an ``AF_LINK`` address.
Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for
instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire
address.

As of version 0.10.0, you can also obtain a list of gateways on your
machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': {2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0')}}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and
each entry is a list of gateways as ``(address, interface, is_default)`` tuples.
Notice that here we have two separate gateways for IPv4 (``AF_INET``); some
operating systems support configurations like this and can either route packets
based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special
value ``default``, which returns a dictionary mapping address families to the
default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family;
this is currently very common for IPv6 and much less common for IPv4 but it
can happen even for ``AF_INET``.

**BTW,** if you're trying to configure your machine to have multiple gateways for
the same address family, it's a very good idea to check the documentation for
your operating system *very* carefully, as some systems become extremely
confused or route packets in a non-obvious manner.

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3. This is great! What platforms does it work on?
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   It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it’s expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?
   -----------------------------

   Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHangelog for a more complete list of changes.

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1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

    tar xvf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following::

    >>> import netifaces

    Then if you enter

    >>> netifaces.interfaces()
you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `AF_LINK` (which means the link layer interface, e.g. Ethernet), 2 is `AF_INET` (normal Internet addresses), and 30 is `AF_INET6` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.
Let's look at a more interesting interface.

```python
>>> addr = netifaces.ifaddresses('en0')
>>> addr[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addr[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address.

Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addr = netifaces.ifaddresses('fw0')
>>> addr[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True), 'default': [2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') ]
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples.

Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special
value `default` which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system very carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

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Platform: UNKNOWN
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Classifier: Programming Language :: Python
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1.54 libuuid 2.34 0.1ubuntu9.1
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1.55 hk2-api 2.2.0-b21

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/BuiltInConverters.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Response.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/OPTIONS.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/HttpServiceMethod.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Call.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/DefaultCallAdapterFactory.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/ParameterHandler.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/ServiceMethod.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/RequestFactory.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/SkipCallbackExecutorImpl.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/SkipCallbackExecutor.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Tag.java

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jar/retrofit2/HttpException.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Streaming.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/QueryMap.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Utils.java
1.62 six 1.16.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/DefaultBaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/BaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/BaggageRestrictionManagerException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/RemoteBaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/BaggageRestrictionManagerProxy.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/package-info.java
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/TraceIdOutOfBoundException.java
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jar/lo/jaegertracing/internal/senders/NoopSender.java
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jar/lo/jaegertracing/spi/SenderFactory.java
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jar/lo/jaegertracing/internal/PropagationRegistry.java
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jar/lo/jaegertracing/internal/senders/SenderResolver.java

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jar/lo/jaegertracing/internal/samplers/ConstSampler.java
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jar/lo/jaegertracing/internal/utils/Http.java
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jar/lo/jaegertracing/internal/exceptions/UnsupportedFormatException.java
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jar/lo/jaegertracing/internal/samplers/SamplingStatus.java
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jar/lo/jaegertracing/internal/exceptions/EmptyIpException.java
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jar/lo/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java
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jar/lo/jaegertracing/spi/Extractor.java
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jar/lo/jaegertracing/internal/samplers/RemoteControlledSampler.java
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jar/lo/jaegertracing/internal/reporters/NoopReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/lo/jaegertracing/internal/metrics/Metric.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/ProbabilisticSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/Clock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/utils/RateLimiter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/NotFourOctetsException.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/MetricsFactory.java
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  jar/io/jaegertracing/internal/clock/MillisAccurateClock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
  jar/io/jaegertracing/internal/MDCScopeManager.java
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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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1.81 kubernetes-api 0.16.9

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1.82 go-homedir 1.1.0

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1.83 libpamc 1.3.1 5ubuntu4.3

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Open Source Used In DNAC System Engineering release/octomore-intg 761
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c

--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -97,6 +97,65 @@
}
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
goto finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
        goto finished;
    if (stat(flag, &s) != 0)
    {
        int fd = open("/etc/legal", O_RDONLY, 0);
        if (fd >= 0) {
            try_to_display_fd(pamh, fd);
            close(fd);
        }
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>0) close(f);
    }
    finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                   "Unable to change UID back to %d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }
    _pam_drop(flag);
    _pam_drop(dir);
    return retval;
}

int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
{
    if (motd_dir_path != NULL)
        try_to_display_directory(pamh, motd_dir_path);
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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1.89 logsave 1.45.5 2ubuntu1

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

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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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

http://sourceforge.net/projects/e2fsprogs

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.90 html5lib 1.0b8

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1.91 libalgorithm-diff-perl 1.19.03-2

1.91.1 Available under license:
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---
In this file, "item" usually means "line of text", and "item number" usually means "line number". But theoretically the code could be used more generally.

```perl
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [-c | -u] [-C | -U] lines oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE

g getopt('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ''; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ''; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $context_lines; # lines of context to print
if (defined $opt_c) {
  $context_lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $context_lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
} else {
  $context_lines = ''; # by default, do context diff, not old diff
}

my (F1, F2); # strings to print before file names
open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
```
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    }
} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(@f1, @f2);
exit 1;

# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk;
sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g.,) of context around each block
    #
    # This subroutine changes $File_Length_Difference
    #
    # Fields in a Hunk:
    # blocks      - a list of Block objects
    # start       - index in file 1 where first block of the hunk starts
    # end         - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_diff - how much longer file 2 is than file 1 due to all hunks
    #     until but NOT including this one
    # after_diff  - difference due to all hunks including this one
    my ($class, $piece, $context_items) = @_;

    my $block = new Block ($piece); # this modifies $FLD!

    my $before_diff = $File_Length_Difference; # BEFORE this hunk
    my $after_diff = $before_diff + $block->{"length_diff"};
    $File_Length_Difference += $block->{"length_diff"};

    # @remove_array and @insert_array hold the items to insert and remove
    # Save the start & beginning of each array. If the array doesn't exist
    # though (e.g., we're only adding items in this block), then figure
    # out the line number based on the line number of the other file and
    # the current difference in file lengths
    my @remove_array = $block->remove;
    my @insert_array = $block->insert;
    my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
    $a1 = @remove_array ? $remove_array[0]->{"item_no"} : -1;
    $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
    $b1 = @insert_array ? $insert_array[0]->{"item_no"} : -1;
    $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

    $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
    $end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
    $start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
    $end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

    # At first, a hunk will have just one Block in it
    my $hunk = {
        "start1" => $start1,
        "start2" => $start2,
        "end1"  => $end1,
        "end2"  => $end2,
        "blocks" => [$block],
    };
}
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($hunk, $context_items) = @_;  
  return unless $context_items; # no context

  # add context before  
  my $start1 = $hunk->"start1";  
  my $num_added = $context_items > $start1 ? $start1 : $context_items;  
  $hunk->{"start1"} -= $num_added;  
  $hunk->{"start2"} -= $num_added;

  # context after  
  my $end1 = $hunk->"end1";  
  $num_added = ($end1+$context_items > $#f1) ?  
    $#f1 - $end1 :  
    $context_items;  
  $hunk->{"end1"} += $num_added;  
  $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?  
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
  my ($hunk, $oldhunk) = @_;  
  return "" unless $oldhunk; # first time through, $oldhunk is empty

  # Do I actually need to test both?  
  return ($hunk->("start1") - $oldhunk->"end1") <= 1 ||  
    ($hunk->"start2") - $oldhunk->"end2") <= 1;
}

# Prepend hunk arg1 to hunk arg0  
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
  my ($hunk, $oldhunk) = @_;  

  $hunk->{"start1"} = $oldhunk->{"start1"};  
  $hunk->{"start2"} = $oldhunk->{"start2"};
unshift (@{Shunk->"blocks"}), @{Soldhunk->"blocks"});

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@
    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*---don't take
    # removed items into account.
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{Shunk->"blocks"}) {
        foreach my $item ($block->remove) {
            my $op = $item->"sign"; # -
            my $offset = $item->"item_no" - $low + $num_added;
            $outlist[$offset] =~ s/^/ $op;/
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->"sign"; # +
            my $i = $item->"item_no";
            my $offset = $i - $hunk->"start2" + $num_removed;
            splice outlist,$offset,0,"$op$$fileref2[$i]";
            $num_added++;
        }
    }
}
sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    print "***************
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    if (@blocklist = grep {$_->remove} @{$hunk->"blocks"}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/
            print @outlist;
    }

    print "--- $range2 ----
    $low = $hunk->"start2";
    $hi = $hunk->"end2";
    if (@blocklist = grep {$_->insert} @{$hunk->"blocks"}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # + or !
            foreach my $item ($block->insert) {
                $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/
            print @outlist;
    }
}
sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($hunk, $flag) = @_;  
    my ($start, $end) = ($hunk->{'start$flag'},$hunk->{'end$flag'});  
    $start++; $end++;  # index from 1, not zero
    my $range = ($start < $end) ? "$start,$end" : $end;
    return $range;
}

sub unified_range {
    # Generate a range of item numbers to print for unified diff
    # Print number where block starts, followed by number of lines in the block
    # (don't print number of lines if it's 1)
    my ($hunk, $flag) = @_;  
    my ($start, $end) = ($hunk->{'start$flag'},$hunk->{'end$flag'});  
    $start++; $end++;  # index from 1, not zero
    my $length = $end - $start + 1;
    my $first = $length < 2 ? $end : $start; # strange, but correct...
    my $range = $length== 1 ? $first : "$first,$length";
    return $range;
}
}

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
#
package Block;
sub new {
    # Input is a chunk from &Algorithm::LCS::diff
    # Fields in a block:
    # length_diff - how much longer file 2 is than file 1 due to this block
    # Each change has:
    # sign        - '+' for insert, '-' for remove
    # item_no     - number of the item in the file (e.g., line number)
    # We don't bother storing the text of the item
    
    my ($class,$chunk) = @_;  
    my @changes = ();  

    # This just turns each change into a hash.
    foreach my $item (@$chunk) {
        my ($sign, $item_no, $text) = @$item;
        my (@$item);  
    }
my $hashref = { "sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}

my $block = { "changes" => \@changes }; 
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
  # what kind of block is this?
  my $block = shift;
  my $insert = $block->insert;
  my $remove = $block->remove;

  $remove && $insert and return "!";
  $remove and return "-";
  $insert and return "+";
  warn "unknown block type";
  return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+' } @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl

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

=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

  require Algorithm::Diff;
# This example produces traditional 'diff' output:

```perl
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = " ";
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d\n",
        $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d\n",
        $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}
```

# Alternate interfaces:

```perl
use Algorithm::Diff qw( LCS LCS_length LCSidx diff sdiff compact_diff traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );
```

# Complicated interfaces:

```perl
@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );
```

traverse_sequences(
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
  a b c d f g h j q z
  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
a b c d f g j z
```
From there it's only a small step to get diff-like output:

```
  e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
  a x b y c z p d q
  a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
  a x b y c z p d q
  a b c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
  a x b y c z p d q
  a b c a x b y c z
```

or

```
  a x b y c z p d q
  a b c a x b y c z
```

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

Given references to two lists of items, LCS returns an array containing
their longest common subsequence. In scalar context, it returns a
reference to such a list.
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<LCS_length>
This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.
=head2 C<LCSidx>
Like C<LCS> except it returns references to two arrays. The first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.
Therefore, the following three lists will contain the same values:
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
=head2 C<new>
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.
You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

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The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [ ] Encloses optional arguments
- : Is followed by the default value for an optional argument
- | Separates alternate return results

Method summary:

```perl
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```perl
<bits = $obj->Diff( ) ;
@items|$cnt = $obj->Same( ) ;
@items|$seqNum = $obj->Items( $seqNum ) ;
@idxs |$seqNum = $obj->Range( $seqNum, [ $base ] ) ;
$minIdx = $obj->Min( $seqNum, [ $base ] ) ;
$maxIdx = $obj->Max( $seqNum, [ $base ] ) ;
@values = $obj->Get( @names ) ;
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```perl
$pos = $diff->Next();    # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.
=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset();     # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);    # Move to the first hunk
$diff->Reset(-1);   # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
Here are two equivalent way to get a "reset" copy:

    $copy = $diff->Copy(0);

    $copy = $diff->Copy()->Reset();

=C<Diff>

    $bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==1|2> . This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar
context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then $diff->Items(1) will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then $diff->Items(2) will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both $diff->Items(1) and $diff->Items(2) will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?[\d]+)?(min|max)[12]$/i
/^((range[12]|[same|diff}|base])$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference
to a hash which can be used when comparing this sequence to other sequences with \texttt{C<LCS>} or \texttt{C<LCS\_length>}.

\begin{verbatim}
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
\end{verbatim}

\texttt{C<prepare>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}.  

\begin{verbatim}
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
\end{verbatim}

Using \texttt{C<prepare>} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

=head2 \texttt{C<diff>}

\begin{verbatim}
@diffs = diff( \@seq1, \@seq2 );
$diffs\_ref = diff( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<diff>} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of \texttt{I<hunks>}; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of \texttt{C<diff>} is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \texttt{C<diff>} for the following two sequences:

\begin{verbatim}
  a b c e h j l m n p
  b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

(}
[ [ '-', 0, 'a' ] ],
[ [ '+', 2, 'd' ] ],
[ [ '-', 4, 'h' ],
[ '+', 4, 'f' ] ],
[ [ '+', 6, 'k' ] ],
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.

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Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

a b c e h j l m n p
b c d e f j k l m r s t

results in

( [ '-', 'a', "" ],
 [ 'u', 'b', 'b' ],
 [ 'u', 'c', 'c' ],
 [ '+' , "", 'd' ],
 [ 'u', 'e', 'e' ],
 [ 'c', 'h', 'f' ],
 [ 'u', 'j', 'j' ],
 [ '+' , "", 'k' ],
 [ 'u', 'l', 'l' ],
 [ 'u', 'm', 'm' ],
 [ 'c', 'n', 'r' ],
 [ 'c', 'p', 's' ],
 [ '+' , "", 't' ],
 )

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

my @a = qw(a b c e h j l m n p);
my @b = qw(b c d e f j k l m r s t);
@cdiff = compact_diff( \@a, \@b );

# Returns:
# @a  @b  @a  @b
# start start values values
( 0, 0, # =
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]>$ through C<$diff[2]-1>$ of the first sequence and contains items C<$diff[1]>$ through C<$diff[3]-1>$ of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair  2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all
contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```perl
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
```

# or
```
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
```

# or
```
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
```

# or
```
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
```

# or
```
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
```

# or
```
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
```

# or
```
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.
You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

\[\text{head2 traverse_sequences}\]

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements \(A[i]\) and \(B[j]\) which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to \(A[i]\) and arrow B is pointing to \(B[j]\). When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

\[
\text{traverse_sequences}(\text{@seq1, @seq2, }
\{ \text{MATCH => $callback_1, }\n\text{DISCARD_A => $callback_2, }\n\text{DISCARD_B => $callback_3, }\n\})
\]

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.
Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first. C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(
  
  \@seq1, \@seq2,
  \{ MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
  },
  undef,  # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);  
```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by \texttt{traverse\_sequences}, \texttt{traverse\_balanced} supports a \texttt{CHANGE} callback indicating that one element got \texttt{replaced} by another:

\begin{verbatim}
traverse\_balanced(
    \@seq1, \@seq2,
    {   MATCH => $callback\_1,
        DISCARD\_A => $callback\_2,
        DISCARD\_B => $callback\_3,
        CHANGE    => $callback\_4,
    }
);
\end{verbatim}

If no \texttt{CHANGE} callback is specified, \texttt{traverse\_balanced} will map \texttt{CHANGE} events to \texttt{DISCARD\_A} and \texttt{DISCARD\_B} actions, therefore resulting in a similar behaviour as \texttt{traverse\_sequences} with different order of events.

\texttt{traverse\_balanced} might be a bit slower than \texttt{traverse\_sequences}, noticeable only while processing huge amounts of data.

The \texttt{sdiff} function of this module is implemented as call to \texttt{traverse\_balanced}.

\texttt{traverse\_balanced} does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

\section*{KEY GENERATION FUNCTIONS}

Most of the functions accept an optional extra parameter. This is a \texttt{CODE} reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator \\"\".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

\begin{verbatim}
package Person;
\end{verbatim}
sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.
You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.
Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1125694504_1611432691.89/0/libalgorithm-diff-perl-l-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

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

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
# # This program is free software; you can redistribute it and/or modify it
# # under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s
", $lineno+1, $text;
    }
}
print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1125694504_1611432691.89/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.92 python-requests 2.26.0

1.92.1 Available under license:

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1.93 swagger-annotations 1.3.5

1.94 librokenheimdal 7.7.0+dfsg 1ubuntu1

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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>
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==============

A. HISTORY OF THE SOFTWARE
============================

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

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

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

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

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Mersenne Twister
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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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- Use binascii module to do the actual line-by-line conversion
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.100 websocket-server 9.3.27.v20190418

1.101 python3.8-dev 3.8.10-0ubuntu1~20.04.1
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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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1.102 errors 0.8.1

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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/reflect/Reflection.java

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  jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/collect/SortedLists.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java

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*/
/**
* Holder for web specializations of methods of [code Doubles]. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/SortedMapDifference.java

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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/Synchronized.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/Multiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ComparatorOrdering.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingSet.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/LinkedHashMultiset.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/collect/SingletonImmutableSet.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/collect/ForwardingSortedSet.java
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  jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
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  jar/com/google/common/hash/Java8Compatibility.java
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  jar/com/google/common/hash/MacHashFunction.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
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  jar/com/google/common/hash/FarmHashFingerprint64.java
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  jar/com/google/common/util/concurrent/Platform.java
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  jar/com/google/common/io/ReaderInputStream.java
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  jar/com/google/common/util/concurrent/AsyncCallable.java
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 */

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 */
/**
 * Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
 * version.
 */

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 */
/**
 * Holder for extra methods of [@code Objects] only in web. Intended to be empty for regular
 * version.
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*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/AbstractTable.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/VerifyException.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Utf8.java

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jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/graph/GraphBuilder.java
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* /opt/cola/permits/110465043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/110465043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/110465043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/collection/JdkBackedImmutableSet.java

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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collection/AbstractIndexedListIterator.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1.jar/com/google/common/collection/CollectSpliterators.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
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Found in path(s):
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/cache/LongAddable.java
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jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Suppliers.java
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jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
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/**
 * Holder for web specializations of methods of [ @code Ints ]. Intended to be empty for regular
 * version.
 */

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  jar/com/google/common/primitives/IntsMethodsForWeb.java
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  jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
  jar/com/google/common/graph/Traverser.java
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jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collection/UnmodifiableSortedMultiset.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collection/CompactLinkedHashMap.java
*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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*/opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collection/TransformedIterator.java
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jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/base/CaseFormat.java
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/*
 * Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
 * { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
 * it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

Found in path(s):
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/util/concurrent/Partially.java

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jar/com/google/common/collection/FluentIterable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/primitives/Floas.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 * 
 * <p>This method assumes that the collection size doesn't change while the method is running.
 * 
 * <p>TODO(kevinb): support concurrently modified collections?
 * 
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-
jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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Found in path(s):
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/base/SmallCharMatcher.java
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*/

Found in path(s):
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1104665043_1604644117.38/0/guava-30-0-jre-sources-1-jar/com/google/common/collect/Count.java

1.109 libperl5.30 5.30.0-9ubuntu0.2
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 **
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 ** of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
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 **
 ** uuid_str.h: string formatting functions
 */

Found in path(s):
/ /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_str.h

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## uuid.pod: Perl Binding (Perl/POD part)

=pod

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API. Three variants are provided:

=head2 TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

=over 4

=item C<use OSSP::uuid;>

=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>

=item C<$uuid = [ $mode, ... ];>

=item C<print "UUID=$uuid\n";>

=pod
The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

Additionally, the strings C."v1">, C."v3">, C."v4">, C."v5"> and C."mc"> can be used in C<$mode> and the strings C."bin">, C."str">, and C."txt"> can be used for C<$fmt>.

The C-style API is a direct mapping of the B."OSSP uuid" ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.
Additionally, the following constants are exported for use in C<$rc>, C<$mode>, C<$fmt> and C<$ver>:

C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
C<UUID_RC_MEM>,
C<UUID_RC_SYS>,
C<UUID_RC_INT>,
C<UUID_RC_IMP>,
C<UUID_MAKE_V1>,
C<UUID_MAKE_V3>,
C<UUID_MAKE_V4>,
C<UUID_MAKE_V5>,
C<UUID_MAKE_MC>,
C<UUID_FMT_BIN>,
C<UUID_FMT_STR>,
C<UUID_FMT_SIV>,
C<UUID_FMT_TXT>.

=head1 EXAMPLES

The following two examples create the version 3 UUID
C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid    = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str\n";

# C-style API (low-level)
use OSSP::uuid qw(all);
my $uuid;    uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

Found in path(s):
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.pod
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## OSSP uuid - Universally Unique Identifier

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This file is part of OSSP uuid, a library for the generation
of UUIDs which can be found at http://www.ossp.org/pkg/lib/uuid/

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uuid++.pod: manual page for C++ API

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier> (C++ API)

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API.
It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type
B<uuid_t>.

=head1 APPLICATION PROGRAMMING INTERFACE
The ISO-C++ Application Programming Interface (API) of B< OSSP uuid> consists of the following components:

=head2 CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

=head2 CLASSES

The following classes are provided:

=over 4

=item B<uuid>

This is the class corresponding to the C API type B< uuid_t>. It is the main object.

=item B<uuid_error_t>

This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.

=back

=head2 METHODS

The following methods are provided:

=over 4

=item B<uuid>();

The standard constructor.

=item B<uuid>(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t * _obj);

The import constructor for C API objects.

=item B<uuid>(const void * _bin);

The import constructor for binary representation.
=item B<uuid>(const char * _str);

The import constructor for string representation.

=item ~B<uuid>();

The standard destructor for B<uuid> class.

=item uuid &B<uuid>::operator=(const uuid & _obj);

The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid>::operator=(const uuid_t * _obj);

The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid>::operator=(const void * _bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid>::operator=(const char * _str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid>::clone(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid>::load(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid>::make(unsigned int _mode, ...);

Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid>::isnil(void);

Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid>::compare(const uuid & _obj);

Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid>::operator==(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for equality.
The comparison operator corresponding to `B<uuid_compare>` usage for inequality.

The comparison operator corresponding to `B<uuid_compare>` usage for less-than.

The comparison operator corresponding to `B<uuid_compare>` usage for less-than-or-equal.

The comparison operator corresponding to `B<uuid_compare>` usage for greater-than.

The comparison operator corresponding to `B<uuid_compare>` usage for greater-than-or-equal.

Regular method corresponding to the C API function `B<uuid_import>` for binary representation usage.

Regular method corresponding to the C API function `B<uuid_import>` for string representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for binary representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for string representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for single integer value representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for textual summary representation usage.

Regular method corresponding to the C API function `B<uuid_version>`. 
=item B<uuid_error_t>()

The standard constructor for B<uuid_error_t> class.

=item B<uuid_error_t>(uuid_rc_t _code)

The standard constructor for B<uuid_error_t> class with return code initialization.

=item ~B<uuid_error_t>()

The standard destructor for B<uuid_error_t> class.

=item void B<uuid_error_t::code>(uuid_rc_t _code)

Regular method for setting the return code.

=item uuid_rc_t B<uuid_error_t::code>(void)

Regular method for fetching the return code.

=item char *B<uuid_error_t::string>(void)

Regular method for fetching the string corresponding to the current return code.

=back

=head1 EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
uuid id_ns;
char *str;

id_ns.load("ns:URL");
id.make(UUID_MAKE_V3, &id_ns, url);
str = id.string();
return str;
}

=head1 SEE ALSO

uuid(3).
=cut

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##
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##
## uuid.pod: manual page
##
B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B<OSSP uuid>.

=head2 UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
[4] version
 -->| <--
 | |  
 | |  [16]
[32] [16] | time_hi
  time_low time_mid |_and_version
[------------------|--|--]  
| MSB             | | | |
```
An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```
uuid = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> "-" <clock_seq_low> "-" <node>
```
An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>. Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25." as in "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:" as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:

=over 4
=item B-Version 1> (time and node based)
These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)

These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=head2 UUID Uniqueness

Version 1 UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version 4 UUIDs are not guaranteed to be globally unique, because they
are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special Nil UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of OSSP uuid consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=over 4

=item B<UUID_VERSION>

The hexadecimal encoded OSSP uuid version. This allows compile-time checking of the OSSP uuid version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>.$I<r>$I<t>$I<l>" is calculated with the B<GNU shtool> B<version> command and is (in Perl-style for concise description) "$I<v>, \{qw(9 2 b a 0)}->\{\$I<v>, \$I<r> eq 's' ? 99 : \$I<l>}\)\", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) does not include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.
The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

Create a new UUID object and store a pointer to it in C<*>I<uuid>. A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the I<Nil> UUID.

Destroy UUID object I<uuid>.

Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

Checks whether the UUID in I<uuid> is the I<Nil> UUID. If this is the case, it returns I<true> in C<*>I<result>. Else it returns I<false> in C<*>I<result>.

=over 4
=section FUNCTIONS

The following functions are provided:

Create a new UUID object and store a pointer to it in C<*>I<uuid>.

Destroy UUID object I<uuid>.

Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

Checks whether the UUID in I<uuid> is the I<Nil> UUID. If this is the case, it returns I<true> in C<*>I<result>. Else it returns I<false> in C<*>I<result>.

=section "Functions"
Compares the order of the two UUIDs in \texttt{I<uuid1>} and \texttt{I<uuid2>} and returns the result in \texttt{C<*>I<result>}: \texttt{C<-1>} if \texttt{I<uuid1>} is smaller than \texttt{I<uuid2>}, \texttt{C<0>} if \texttt{I<uuid1>} is equal to \texttt{I<uuid2>} and \texttt{C<+1>} if \texttt{I<uuid1>} is greater than \texttt{I<uuid2>}.

\begin{verbatim}
=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);

Imports a UUID \texttt{I<uuid>} from an external representation of format \texttt{I<fmt>}. The data is read from the buffer at \texttt{I<data_ptr>} which contains at least \texttt{I<data_len>} bytes.

The format of the external representation is specified by \texttt{I<fmt>} and the minimum expected length in \texttt{I<data_len>} depends on it. Valid values for \texttt{I<fmt>} are \texttt{B<UUID_FMT_BIN>}, \texttt{B<UUID_FMT_STR>} and \texttt{B<UUID_FMT_SIV>}.

=item uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t *I<data_len>);

Exports a UUID \texttt{I<uuid>} into an external representation of format \texttt{I<fmt>}. Valid values for \texttt{I<fmt>} are \texttt{B<UUID_FMT_BIN>}, \texttt{B<UUID_FMT_STR>}, \texttt{B<UUID_FMT_SIV>} and \texttt{B<UUID_FMT_TXT>}.

The data is written to the buffer whose location is obtained by dereferencing \texttt{I<data_ptr>} after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument \texttt{I<data_ptr>} is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type \texttt{"C<unsigned char **>"} for \texttt{B<UUID_FMT_BIN>} and \texttt{"C<char **>"} for \texttt{B<UUID_FMT_STR>}, \texttt{B<UUID_FMT_SIV>} and \texttt{B<UUID_FMT_TXT>}.

The buffer has to be room for at least \texttt{C<*I<data_len>} bytes. If the value of the pointer after "casting" and dereferencing \texttt{I<data_ptr>} is \texttt{C<NULL>}, \texttt{I<data_len>} is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing \texttt{I<data_ptr>} (the caller has to free(3) it later on).

If \texttt{I<data_len>} is not \texttt{C<NULL>}, the number of available bytes in the buffer has to be provided in \texttt{C<*I<data_len>} and the number of actually written bytes are returned in \texttt{C<*I<data_len>} again. The minimum required buffer length depends on the external representation as specified by \texttt{I<fmt>} and is at least \texttt{B<UUID_LEN_BIN>} for \texttt{B<UUID_FMT_BIN>}, \texttt{B<UUID_LEN_STR>} for \texttt{B<UUID_FMT_STR>} and \texttt{B<UUID_LEN_SIV>} for \texttt{B<UUID_FMT_SIV>}. For \texttt{B<UUID_FMT_TXT>} a buffer of unspecified length is required and hence it is recommended to allow \texttt{B<OSSP uuid>} to allocate the buffer as necessary.

=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);
\end{verbatim}
Loads a pre-defined UUID value into the UUID object I<uuid>. The following I<name> arguments are currently known:

=over 4

=item I<name> I<UUID>

=over 4

=item nil 00000000-0000-0000-0000-000000000000

=item ns:DNS 6ba7b810-9dad-11d1-80b4-00c04fd430c8

=item ns:URL 6ba7b811-9dad-11d1-80b4-00c04fd430c8

=item ns:OID 6ba7b812-9dad-11d1-80b4-00c04fd430c8

=item ns:X500 6ba7b814-9dad-11d1-80b4-00c04fd430c8

=back

The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

=item uuid_rc_t B<uuid_make>(uuid_t *I<uuid>, unsigned int I<mode>, ...);

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>), Second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

=item char *B<uuid_error>(uuid_rc_t I<rc>);

Returns a constant string representation corresponding to the
return-code I<rc> for use in displaying B< OSSP uuid> errors.

= item unsigned long B< uuid_version>(void);

Returns the hexadecimal encoded B< OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B< OSSP uuid> version. For compile-time checking use C< UUID_VERSION> instead.

=back

=head1 EXAMPLE

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}
The following are references to UUID documentation and specifications:

- **B<A Universally Unique IDentifier (UUID) URN Namespace>,**
  P. Leach, M. Mealling, R. Salz,
  IETF RFC-4122,
  July 2005, 32 pages,
  http://www.ietf.org/rfc/rfc4122.txt

- **Information Technology -- Open Systems Interconnection (OSI),**
  **B<Procedures for the operation of OSI Registration Authorities:**
  Generation and Registration of Universally Unique Identifiers (UUIDs)
  and their Use as ASN.1 Object Identifier Components>,
  December 2004, 25 pages,

- **B<DCE 1.1: Remote Procedure Call>,**
  appendix **B<Universally Unique Identifier>,**
  Open Group Technical Standard
  Document Number C706, August 1997, 737 pages,
  (supersedes C309 DCE: Remote Procedure Call 8/1994,
  which was basis for ISO/IEC 11578:1996 specification),
  http://www.opengroup.org/publications/catalog/c706.htm

- **Information technology -- Open Systems Interconnection (OSI),**
  **B<Remote Procedure Call (RPC)>,**
  ISO/IEC 11578:1996,
  August 2001, 570 pages, (CHF 340,00),
  http://www.iso.ch/cate/d2229.html

- **B<HTTP Extensions for Distributed Authoring (WebDAV)>,**
  section **B<6.4.1 Node Field Generation Without the IEEE 802 Address>,**
  IETF RFC-2518,
  February 1999, 94 pages,
B <DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE

=head1 HISTORY

B <OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E <lt>rse@engelschall.comE</lt>. It was prompted by the use of UUIDs in the B <OSSP as> and B <OpenPKG> projects. It is a clean room implementation intended to be strictly standards compliant and maximum portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

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* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/configure.ac
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 **
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 ** which can be found at http://www.ossp.org/pkg/lib/ui64/.
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** ui64.h: API declaration
*

/!

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###
## uuid.tm: Perl XS typemap for xsubpp(1)

### TYPEMAP

- `uuid_t *` T_PTRREF
- `uuid_t **` T_PTRREF
- `uuid_rc_t` T_IV
- `uuid_fmt_t` T_IV
- `int *` T_PV
- `size_t *` T_PV
- `const void *` T_PV
- `void **` T_PV

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### uuid_cli.pod: manual page

```pod
```

=pod
NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

VERSION

OSSP uuid UUID_VERSION_STR

SYNOPSIS

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-l>]
[B<-F> I<format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B<OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).
=head1 OPTIONS

=over 3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>" and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>

Generate I<count> UUIDs instead of just a single one (the default).

=item B<-1>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.
=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->") the UUID is read from F<stdin>) and dump textual information about the UUID.

=back

=head1 EXAMPLES

# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272ff725

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
encode: STR: 01c47915-4777-11d8-bc70-0090272ff725
SIV: 2349374037528578887923094374772111141
version: 1 (time and node based)
clock: 15472 (usually random)
node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.ossp.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd

# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV: 378986628560791088810081838505376205
  version: 3 (name based, MD5)
    (not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV: 31271257172145809679510095695942831823
  version: 4 (random data based)
    (no semantics: random data only)

=head1 SEE ALSO

uuid(3), OSSP::uuid(3).
=cut

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**
** uuid_mac.h: Media Access Control (MAC) resolver API definition
*/

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##
## uuid.pc.in: pkg-config(1) specification
##
## prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib
Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
CFlags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

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 ** uuid_dce.c: DCE 1.1 compatibility API implementation
 */

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/*
 ** OSSP uuid - Universally Unique Identifier
uuid_sha1.h: SHA-1 API definition

 */

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** uuid_sha1.h: SHA-1 API definition
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** uuid++.hh: library C++ API definition */

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** uuid_time.c: Time Management */

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cfg.m4: PHP/Zend API build-time configuration (language: m4)
cfg

PHP_ARG_ENABLE(uuid, OSSP uuid module,
[  --enable-uuid Enable OSSP uuid extension module.])
if test "$PHP_UUID" != "no"; then
  PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
  AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
  PHP_ADD_LIBPATH([..], )
  PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
  PHP_ADD_INCLUDE([..])
  PHP_SUBST(UUID_SHARED_LIBADD)
  dnl avoid linking conflict with a potentially existing uuid_create(3) in libc
  AC_CHECK_FUNC(uuid_create,[
    SAVE_LDFLAGS="$LDFLAGS"
    LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
    AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
    LDFLAGS="$SAVE_LDFLAGS"])

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**
** uuid.c: PostgreSQL Binding (C part)
*/

** OSSP ui128 - 128-Bit Arithmetic
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**
** ui128.h: API declaration
*/

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**
** uuid_str.c: string formatting functions
*/

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**
** uuid_time.h: Time Management API
*/

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uuid_dce.h: DCE 1.1 compatibility API definition

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** uuid.h: library API definition
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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
*/

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uuid_sha1.c: SHA-1 API implementation
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**
** uuid.c: library API implementation
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** uuid++.cc: library C++ API implementation
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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--
--
-- prolog
--

SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING)    CASCADE;
DROP FUNCTION uuid_out(uuid)      CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid)     CASCADE;
DROP TYPE     uuid                CASCADE;
DROP CAST     (CSTRING AS uuid)   CASCADE;
DROP CAST     (uuid AS CSTRING)   CASCADE;

DROP FUNCTION uuid(CSTRING)       CASCADE;
DROP FUNCTION uuid(INTEGER)       CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;
DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <> (uuid,uuid) CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR <=(uuid,uuid) CASCADE;
DROP OPERATOR >=(uuid,uuid) CASCADE;
DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;

BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION
  uuid_in(CSTRING) RETURNS uuid
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
  uuid_out(uuid) RETURNS CSTRING
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION
  uuid_recv(INTERNAL) RETURNS uuid
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION
  uuid_send(uuid) RETURNS BYTEA
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (  
  INPUT  = uuid_in, -- for SQL input  
  OUTPUT = uuid_out, -- for SQL output  
  RECEIVE = uuid_recv, -- for DB input


SEND = uuid_send, -- for DB output
DEFAULT = 'uuid(1),
INTERNALLENGTH = 16,
ALIGNMENT = char
);

COMMENT ON TYPE uuid
IS 'UUID type';

-- CREATE CAST (CSTRING AS uuid)
-- WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
-- WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;
--
-- the UUID constructor function
--

CREATE FUNCTION
uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--
-- the UUID operators
--

CREATE FUNCTION
uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';
CREATE FUNCTION
  uuid_lt(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
  uuid_gt(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (  
  leftarg = uuid,
  rightarg = uuid,
  negator = <>,
  procedure = uuid_eq
);

CREATE OPERATOR <> (  
  leftarg = uuid,
  rightarg = uuid,
  negator = =,
  procedure = uuid_ne
);

CREATE OPERATOR < (  
  leftarg = uuid,
  rightarg = uuid,
  commutator = >,
  negator = >=,
  procedure = uuid_lt
);

CREATE OPERATOR > (  
  leftarg = uuid,
  rightarg = uuid,
  commutator = <,
  negator = <=,
  procedure = uuid_gt
CREATE OPERATOR <= (  
    leftarg    = uuid,  
    rightarg   = uuid,  
    commutator = >=,  
    negator    = >,  
    procedure  = uuid_le  
);  

CREATE OPERATOR >= (  
    leftarg    = uuid,  
    rightarg   = uuid,  
    commutator = <=,  
    negator    = <,  
    procedure  = uuid_ge  
);  

--  the UUID support for indexing  
--  
CREATE FUNCTION  
    uuid_hash(uuid) RETURNS INTEGER  
IMMUTABLE STRICT  
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';  
CREATE FUNCTION  
    uuid_cmp(uuid, uuid) RETURNS INTEGER  
IMMUTABLE STRICT  
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';  
CREATE OPERATOR CLASS uuid_ops  
DEFAULT FOR TYPE uuid USING hash AS  
OPERATOR 1 =, -- 1: equal  
FUNCTION 1 uuid_hash(uuid);  
CREATE OPERATOR CLASS uuid_ops  
DEFAULT FOR TYPE uuid USING btree AS  
OPERATOR 1 <, -- 1: less than  
OPERATOR 2 <=, -- 2: less than or equal  
OPERATOR 3 =, -- 3: equal  
OPERATOR 4 >=, -- 4: greater than or equal  
OPERATOR 5 >, -- 5: greater than  
FUNCTION 1 uuid_cmp(uuid, uuid);  

--  
--  epilog
COMMIT;

Found in path(s):
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1.6-2-orig-tar-gz/uuid-1.6.2/pgsql/uuid.sql.in
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 **
 ** uuid_prng.h: PRNG API definition
 */

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/*
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ui128.c: implementation of 128-bit unsigned integer arithmetic

/*

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** uuid_cli.c: command line tool
*/

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/*
** uuid_prng.c: PRNG API implementation
*/
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uuid_bm.c: bitmask API implementation
/

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1
and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- http://www.ossp.org/pkg/lib/uuid/

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**
** uuid_ac.c: auto-configuration
*/

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** uuid_md5.c: MD5 API implementation
*/
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###
## NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

## DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without changes.

## SEE ALSO

B<OSSP::uuid>.

## HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<lt>dexter@debian.orgE<gt>. It was later cleaned up and speed optimized in December 2005 by David Wheeler E<lt>david@justatheory.comE<gt>.
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```
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* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.ts
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.pm
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuidCompat.pm
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/Makefile.PL
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuidCompat.ts
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.php4
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.php5
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/Makefile.PL
* /opt/cola/permits/1252307804_1641892839.0/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/uuid.php
```

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*/
```
** uuid.xs: Perl Binding (Perl/XS part)
*/

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**
** ui64.c: implementation of 64-bit unsigned integer arithmetic
*/

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uuid.c: PHP/Zend API (language: C)
*/

1.111 golang-genproto 0.0.0-20210602131652-f16073e35f0c

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* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/annotation/ClassMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/annotation/MemberValueVisitor.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/annotation/IntegerMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/annotation/StringMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/SerialVersionUID.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/ObjectNotFoundException.java
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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Better unicode support for filepost using StringIO buffers

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  * Stream method for Response objects.
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  * Generate 'Host' header when using proxies.

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  * Bugfixes, docs, test coverage

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* Arthur Grunseid <https://grunseid.com>
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  * Bugfixes

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

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

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

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

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

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

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

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

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

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

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

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``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]
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/AggregationLevel.java
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 */

/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 */
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java

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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/authentication/SaslPrep.java

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* https://github.com/marianobarrios/tls-channel
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/Async/TlsChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/Util.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/async/Async/TlsChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java

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* https://github.com/marianobarrios/tls-channel
*/

/**
* Writes a sequence of bytesProduced to this channel from a subsequence of the
* given buffers.
*
* <p>
* See {@link GatheringByteChannel#write(ByteBuffer[], int, int)} for more
* details of the meaning of this signature.
* */
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see [@link #write(ByteBuffer)]
* for more details.
*
* @param srcs   The buffers from which bytesProduced are to be retrieved
* @param offset The offset within the buffer array of the first buffer from
* which bytesProduced are to be retrieved; must be non-negative and no
* larger than <tt>srcs.length</tt>
* @param length The maximum number of buffers to be accessed; must be
* non-negative and no larger than <tt>srcs.length</tt>
* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&ndash;&nbsp;-&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;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* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
*     <tt>length</tt> parameters do not hold
* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
*     cannot be completed immediately
* @throws NeedsTaskException if the channel is not configured to run tasks automatically
*     and a task needs to be executed to complete the operation
* @throws SSLException if the {@link SSLEngine} throws a SSLException
* @throws IOException if the underlying channel throws an IOException
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/ThreadSafe.java
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AbortTransactionOperation.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommitTransactionOperation.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/TransactionOperation.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/TransactionOptions.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/ReadConcernAwareNoOpSessionContext.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNull.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNullApi.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/Nullable.java

1.127 armon-circbuf 0.0.0-20150827004946-bbbad097214e
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1.128 hibernate-validator 5.0.0.Final

1.129 pip 21.3.1

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A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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c-a-bundle.crt -- Bundle of CA Root Certificates

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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1.130 pci-ids 0.0~2020.03.20-1

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1.131 tiger-types 1.4

1.132 gsettings-desktop-schemas 3.36.0-1ubuntu1

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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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(May be used for SSL/TLS support) Uses an Original BSD-style license with an
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## GnuTLS

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## libressl

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## BearSSL
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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

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

## MIT Kerberos

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## Heimdal

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## GNU GSS

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## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2
(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

### 1.136 attrs 19.1.0

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### 1.137 aec 1.0.0

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1.138 libtext-iconv-perl 1.7-7

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

Text::Iconv Version 1.6

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Description
-----------

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites
-------------

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module
-------------------

Since the Single UNIX Specification only specifies an interface,
several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

perl Makefile.PL
make
make test

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation. This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation
-------------

make install

Feedback
--------
Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks
-----

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):
* /opt/cola/permits/1125674548_1611395382.31/0/libtext-iconv-perl-1.7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.139 go-isatty 0.0.12
1.139.1 Available under license :
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1.143 e2fsprogs 1.45.5 2ubuntu1

1.143.1 Available under license :

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

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#
# This 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 = libc
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image:$(BSD_LIB)

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

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

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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1.144 asm-all-repackaged 2.2.0-b21

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1.145 zlib1g 1:1.2.11.dfs 2ubuntu1.2

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Upstream-Name: zlib
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Source: http://zlib.net/
Comment: This is the pre-packaged Debian Linux version of the zlib compression
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/pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

The deflate format used by zlib was defined by Phil Katz. The deflate
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1.146 libmagic-mgc 1:5.38 4

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

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1.148 python3-distutils 3.8.10-0ubuntu1~20.04

1.148.1 Available under license:

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extensions-3.9.5/3.9/Lib/lib2to3/pytree.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixtures/fix_has_key.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_pytree_idempotency.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_ne.py
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* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/refactor.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/refactor.py
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* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1251806808_1614134566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/patcomp.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixed/fix_print.py

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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/fixed/fix_print.py

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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pgen2/conv.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pген2/grammar.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/pген2/literals.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pген2/__init__.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pген2/literals.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/pген2/conv.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pген2/grammar.py

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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/pgen.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/literals.py

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
 | NAME [Details] [Repeater]
 | '(' Alternatives ')' [Repeater]
 | '[' Alternatives ']' )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/PatternGrammar.txt
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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

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file.write('License: %s
' % self.get_license())

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file.write('License: %s
' % self.get_license())
extensions-3.9.5/3.8/Lib/distutils/dist.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixes/fix_dict.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/7/Lib/lib2to3/fixes/fix_filter.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/3/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/6/Lib/lib2to3/fixes/fix_map.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/10/Lib/lib2to3/fixes/fix_xrange.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3/10/Lib/lib2to3/fixes/fix_xrange.py

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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/8/Lib/distutils/cygwinccompiler.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/cygwinccompiler.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/9/Lib/distutils/command/bdist_wininst.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/cygwinccompiler.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_wininst.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_msi.py
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* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806808_1641834566.54/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5.3/10/Lib/distutils/command/bdist_wininst.py

1.149 wheel 0.34.2-1

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1.151 python-distro 1.4.0-1
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1.152 gopkg.in-yaml 3.0.0-20200313102051-9f266ea9e77c

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    parserc.go
    readerc.go
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1.153 netbase 6.1
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1.154 jnr-constants 0.9.0

1.155 go-connections 0.3.0

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1.156 maglev-internal-api 1.6.51

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Metadata-Version: 2.0
Name: maglev-internal-api
Version: 1.6.51
Summary: Maglev Internal API Library (1.6.51)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: aiohttp (==2.2.5)
Requires-Dist: chardet (==3.0.4)
Requires-Dist: dnspython (==1.16.0)
Requires-Dist: idna (==2.7)
Requires-Dist: monotonic (==1.1)
Requires-Dist: python-etcd (==0.4.5)
Requires-Dist: urllib3 (~=1.24.3)
Requires-Dist: yarl (==0.18.0)

# Installation
+ Requires: Python 3.5 download the dmg and install, use pyvenv to create a virtual environment
maglev_internal_api/__init__.py,sha256=aSM_7jxnyvZKyIWRH4bUzQjS_WDKXi6VggW9uOx604,85
maglev_internal_api/constants.py,sha256=8ooKJk6Rjja17Z-4Gf7DK5nkoecbHFb_DQeeLrD5dS-dK-A,1571
maglev_internal_api/decorators.py,sha256=kslijInntX44uAw0F5CDjRy19v/wstG4LpYDUSEfl-cqnQ.2355
maglev_internal_api/responses.py,sha256=4UBUVFgpxCXuEcG4VcimnlJLFFFxKxAlqplQLMrkJTioY.355
maglev_internal_api/utils.py,sha256=zN_WIfK2nQW0rEmfUHqa8MOqve_U4dL__truAqGcA2zio.3098
maglev_internal_api/common/__init__.py,sha256=47DEEqpj8HBSa__TlmW-5JCeuQeRkm5NMpJWZG3hSuFU.0
maglev_internal_api/common/task.py,sha256=ksljIlmtXAA4WmeoPa0MDeMgl1-SZO0on2X0azVZ1U.6654
1.157 consul 1.10.3

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<div...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={{name}}
as [group]>

{{yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)
  isDirty=(and changeset.isValid)
  changeset=changeset
 )}}

<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}} />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
    <group.Element
      @name="PathType"
      @type="select"
    as |el|>
      <el.Label>
        Path type
      </el.Label>
      <PowerSelect
        @options={{pathTypes}}
        @selected={{pathType}}
    </group.Element
  </div>
</fieldset>
@onChange={ {action 'change' 'HTTP.PathType' changeset} } as |Type|>

| { {get pathLabels Type} } |

</PowerSelect>

</group.Element>

| { {#if shouldShowPathField} } |

<group.Element
 @name="Path"
 @error={ {changeset-get changeset 'error.HTTP.Path'} } |

as [el]>

<el.Label>
  | { {get pathLabels pathType} } |

</el.Label>

<el.Text
 @value={ {changeset-get changeset 'HTTP.Path'} } |

oninput={ {action 'change' 'HTTP.Path' changeset} } |

/>

<State @state={ {el.state} } @matches="error"> |

<el.Error>
  | { {#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')} } |

  Path Regex should not be blank |

  | { {else} } |

  Path should begin with a '/' |

  | { {/if} } |

</el.Error>

</State>

</group.Element>

| { {/if} } |

</div>

</fieldset>

<fieldset>
<h2>Methods</h2>

<div class="type-toggle">

<span>All methods are applied by default unless specified</span>

<group.Element
 @name="allMethods"
 as [el]>

<el.Checkbox
 checked={ {if allMethods 'checked'} } |

onchange={ {action 'change' 'allMethods' changeset} } |

/>

<el.Label>
 All Methods
</el.Label>

</group.Element>

</div>

</fieldset>
<div class="checkbox-group" role="group">
    {{#each methods as |method|}}
    <label class="type-checkbox">
        <input type="checkbox" name="method" value={{method}} checked={{if (contains method changeset.HTTP.Methods) 'checked'}} onchange={{action 'change' 'method' changeset}} />
        <span>{{method}}</span>
    </label>
    {{/each}}
</div>

<fieldset>
    <h2>Headers</h2>

    <Consul::Intention::Permission::Header::List
        @items={{changeset-get changeset 'HTTP.Header'}}
        @ondelete={{action 'delete' 'HTTP.Header' changeset}}
    as |headerList|>
    </Consul::Intention::Permission::Header::List>

    <Consul::Intention::Permission::Header::Form
        @onsubmit={{action 'add' 'HTTP.Header' changeset}}
    as [headerForm]>
        <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
    </Consul::Intention::Permission::Header::Form>

    <button data-test-add-header
        type="button"
        class="type-submit"
        disabled={{if (not this.headerForm.isDirty) 'disabled'}}
        onclick={{action this.headerForm.submit}}>
        Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
    </button>

    <button
        type="button"
        class="type-cancel"
        onclick={{action this.headerForm.reset}}>
    </button>
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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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```text
Usage: consul license <subcommand> [options] [args]
```

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:
$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:

get        Get the active license
inspect    Inspect a signed license
put        Puts a new license in the datacenter
reset      Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [license file]`

Inspect a license contained in a file:

```

$ consul license inspect consul.hcl
```

Inspect a license loaded from the environment:

```

$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.
The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7cc6-c210-20d899c5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
  Global Visibility, Routing and Scale
  Governance and Policy
Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
  Namespaces
  SSO
  Audit Logging
  Admin Partitions
License is valid
```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:
```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8fffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
   Automated Backups
   Automated Upgrades
   Enhanced Read Scalability
   Network Segments
   Redundancy Zone
   Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8fffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
   Automated Backups
   Automated Upgrades
   Enhanced Read Scalability
   Network Segments
   Redundancy Zone
   Advanced Network Federation
```

## reset

```
```

```
```

## reset

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8fffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
   Automated Backups
   Automated Upgrades
   Enhanced Read Scalability
   Network Segments
   Redundancy Zone
   Advanced Network Federation
```
**Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one built-in in Consul binary, if it is still valid. If the built-in license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffe-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
  @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
  @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
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Data model artifacts for Prometheus.

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{{#each item.HTTP.Methods as |item|}}
  {{item}}
{{/each}}
</dd>
</dl>

{{/if}}

{{#if item.HTTP.Path}}
<dl class="permission-path">
  <dt>
    <Tooltip>
      {{item.HTTP.PathType}}
    </Tooltip>
  </dt>
  <dd>
    {{item.HTTP.Path}}
  </dd>
</dl>
{{/if}}

{{#each item.HTTP.Header as |item|}}
<dl class="permission-header">
  <dt>
    <Tooltip>
      Header
    </Tooltip>
  </dt>
  <dd>
    {{item.Name}} {{route-match item}}
  </dd>
</dl>
{{/each}}
</div>
</BlockSlot>

{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
{{/if onclick}}
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>>> go-openapi_swag-96d7b9ebd181a17351c9ac87914f2b32fbf56c9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556c7e4b2
>>> go_compute_metadata-cd0da878c6609106002e7403ab62192b3e387e0
>>> go_internal-cd0da878c6609106002e7403ab62192b3e387e0

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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b0391d770a11a39677f1d3b55a4002bb
>>> armon_go-radix-4239bb77079c7b5d1423bb74736304ce8dbb60f0
>>> asaskevich_govalidator-9699aab6b388ee2fe02cd3fe8b99ecf67665395e9
>>> azure_go-aniserterm-70b2c90b260171ee829f1ebd7c17f600ce11858d8be
>>> boltdb_bolt-b514920ff2e0a68f857e5a12cc774f385a9ae9f
>>> cenkalti_backoff-b02f2bce11d7e46b97f28ef1771b0fe2f65f3
>>> client9_misspell-9a1fc2456ace9e8c9b4e90d005b6e7aadac0d357f
>>> codegangsta/inject-33e0a1cb7c019ccc3fbeb049a8262a403d0504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4df7c74868dfa9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29ff0231dce3e250b2ed9ff084125848bca
>>> deckarep_golang-set-1f04ff8d3feb9328522993ec71c358906f7554
>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a426961a1e486
>>> gemnasium_logs-grausenr-ook_v2-3-1e6fd4bd5a98d8ee7673d24bc54e73c31810dd
>>> gizak_termui-798ff9ebbe4073ef1f88e6069ca4a2c6aa6676b
>>> go-check_check-20d25e2804050c1cd24a7ee1a76a447dd0e74ec
>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071
>>> go-ns-client-42fca177a36031d648551c751ed1daf5f5dd4f0
>>> godbus_dbus-230e4b23db2fd81e53eaaa073f76659d4849fe51
>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2ed93f7567208dbb2b7
>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2ed93f7567208dbb2b7
>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a8f5333cf106b2ed93f7567208dbb2b7
>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2ed93f7567208dbb2b7
>>> gogo_protobuf_types-6a92c871a8f5333cf106b2ed93f7567208dbb2b7
>>> goji/param-d7f49fd7d1ed53d562e737a8b5bbc7e3d925e2
>>> golang_lint-chb0e56685390f47b2f4c53a421a01b0e8e172c6
>>> google_go-github.github-7a51fb92852a196d5f31ad3e88a489453ef54ff
>>> google_go-querystring_query-53e6e116315b80d37921a7fdd5138cf32d7a8a
>>> gooogle_uiid-f3f4b54b2fabcfc1f1ddc939025b6b0c1096ed8

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> Isof-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssl-7.561-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcire-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.32-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
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>>> zlib-1.2.11-1.ph2

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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procs-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2
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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https:code.google.compgoogle-glog

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

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>>> godbus_dbus-230c4b23db2fd81e53eaa0073f76659d4849ce51

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objx - by Mat Ryer and Tyler Bunnell

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tomb - support for clean goroutine termination in Go.

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```bash
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb
```

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https://www.ietf.org/rfc/rfc2268.txt

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It was heavily inspired by the go blowfish package.

>>> x__crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
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```

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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key. It is designed to run only on the instance of godoc that serves golang.org.

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```bash
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```

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Re-implemented by Vincent Sanders <vince@kyllikki.org> with extensive reference to original curl example code

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lib/gssapi/mechglue/g_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
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lib/gssapi/mechglue/g_imp_name.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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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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Tim Kientzle, February 2009.

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>version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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-- vile: txtmode file-encoding=utf-8

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iptables-1.6.1.tar.bz2\iptables-1.6.1.tar\iptables-1.6.1\extensions\libip6t_HL.c

IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW’s ttl target
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iptables-1.6.1.tar.bz2\iptables-1.6.1.tar\iptables-1.6.1\utils\pf.os
SYN signatures. Those signatures work for SYN packets only (duh!).

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>>> linux-esx-4.9.154-1.ph2

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4.9.154\arch\arm\crypto\aes-armv4.S

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4.9.154\arch\arm\mach-imx\pm-imx27.c

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

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

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ena_linux_1.1.3.tar.gz, linux-4.4.111.tar.xz

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This code offers a very basic support for this EISA bus present in
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```

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

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

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

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mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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2.32\misc-utils\uuidparse.c

uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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

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

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

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

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

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

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C

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

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

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

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.
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alloc.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

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

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

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

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
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Heavily modified for GnuPG by Werner Koch

/

This module is part of the cryptlib continuously seeded pseudorandom number generator. For usage conditions, see lib_rand.c

[Here is the notice from lib_rand.c:]

This module and the misc/rnd.c modules represent the cryptlib continuously seeded pseudorandom number generator (CSPRNG) as described in my 1998 Usenix Security Symposium paper "The generation of random numbers
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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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estream.c - Extended Stream I/O Library

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Bison implementation for Yacc-like parsers in C


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Test Socket Type

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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
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You should have received a copy of the GNU General Public License
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Also add information on how to contact you by electronic and paper mail.

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

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

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it.
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The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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

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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's
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you conspicuously and appropriately publish on each copy an
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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
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and you may at your option offer warranty protection in exchange for a
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2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
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above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

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

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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Version 3, 29 June 2007

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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```shell-session
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```
| 30 days before expiration | Warning-level log every 24-hours |
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| 1 hour before expiration  | Warning-level log every 1 minute |
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| At or after termination   | Error-level log and exit         |

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   as |el|>
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   <el.Text
      @value={()=> changeset-get changeset 'Name'}
      oninput={()=> action 'change' 'Name' changeset}
   />
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      </el.Error>
   </State>
</group.Element>

{{#if shouldShowValueField}}
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      as |el|>
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      <el.Text
         @value={()=> changeset-get changeset 'Value'}
         oninput={()=> action 'change' 'Value' changeset}
      />
      <State @state={{el.state}} @matches="error">
         <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
         </el.Error>
      </State>
   </group.Element>
{{/if}}
</div>
</fieldset>
</FormGroup>

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description: Consul Enterprise License Overview.
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### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `[license_path](/docs/agent/options#license_path)` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

### Client Agent License Retrieval
When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn’t need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `['start_join']` or `['retry_join']` configurations. If those are both unset or no `['agent' token]` is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
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# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#  Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
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package api

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

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

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

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

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

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

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

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

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

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

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

}

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

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

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return "", err
}
data, err := ioutil.ReadAll(resp.Body)
if err != nil {
return "", err
}
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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

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

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# Notice

Presentational component for informational/warning/error banners/notices.
```hbs preview-template
<Notice
@type={{this.type}}
as |notice|>
<notice.Header>
<h3>Header</h3>
</notice.Header>
<notice.Body>
<p>
Body
</p>
</notice.Body>
<notice.Footer>
<p>
<a href="">Footer link</a>
</p>
</notice.Footer>
</Notice>
<figure>
<figcaption>Provide a widget to change the <code>@type</code></figcaption>
<select
onchange={{action (mut this.type) value="target.value"}}
>
<option>info</option>
<option>success</option>
<option>warning</option>
<option>error</option>
</select>
</figure>
```
## Arguments
<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info|warning|error]</td>
</tr>
</tbody>
</table>
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@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
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%notice {
border-radius: $decor-radius-100;
border: $decor-border-100;
color: $black;
}
%notice::before {
@extend %as-pseudo;
}
%notice header > * {
@extend %h300;
}
%notice footer * {
@extend %p3;
font-weight: $typo-weight-bold;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
@extend %notice;
}
%notice-success {
  background-color: $green-050;
  border-color: $green-500;
}
%notice-info {
  border-color: $blue-100;
  background-color: $gray-010;
}
%notice-info header * {
  color: $blue-700;
}
%notice-highlight {
  background-color: $gray-050;
  border-color: $gray-300;
}
%notice-info header * {
  color: $gray-700;
}
%notice-warning {
  border-color: $yellow-100;
  background-color: $yellow-050;
}
%notice-warning header * {
  color: $yellow-800;
}
%notice-error {
  background-color: $red-050;
  border-color: $red-500;
}
%notice-success::before {
  @extend %with-check-circle-fill-mask;
  color: $green-500;
}
%notice-info::before {
  @extend %with-info-circle-fill-mask;
  color: $blue-500;
}
%notice-highlight::before {
  @extend %with-star-fill-mask;
  color: $yellow-500;
}
%notice-warning::before {
  @extend %with-alert-triangle-mask;
  color: $orange-500;
}
%notice-error::before {

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# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

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

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from
either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

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

## Q: What are the upgrade requirements?
All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](https://docs/enterprise/upgrades) for details.

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

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

### Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](https://docs/enterprise/license)
- [License configuration values documentation](https://docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

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

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

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

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

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

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0.
This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk.
(auto-loaded) or as an environment variable.
Failure to provide a valid license key will result in the Consul server agent not starting.

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

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed.
Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates.
As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.
Consul client agents will attempt to retrieve the license from servers if certain conditions are met:
- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

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

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

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.
## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will** check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.

This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

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

### VM

1. Run ``consul license get -signed`[/commands/license#get] to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are
needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

--> **WARNING:** If you are upgrading the Helm chart but *not* upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

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

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

--> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls
to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

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---

layout: api
page_title: License - Operator - HTTP API
description: |

    The /operator/license endpoint allows for retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.
<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint’s support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
    ]
  }
}```
## Updating the Consul License

**Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

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

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: `""`)` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
```

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
```
```
### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

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

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency),
Open Source Used In DNAC System Engineering release/octomore-intg  2065

[agent caching]/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- ``dc` `(string: `")` - Specifies the datacenter whose license should be updated.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \\
   --request DELETE \\
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {  
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [  
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
```css
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}
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<ListCollection
class="consul-intention-permission-header-list"
@items={{items}}
@scroll="native"
@cellHeight={{42}}
as |item|>
  <BlockSlot @name="details">
    <dl>
      <dt>
        <Tooltip>
          Header
        </Tooltip>
      </dt>
      <dd>
        {{item.Name}} {{route-match item}}
      </dd>
    </dl>
  </BlockSlot>
  <BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
      <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
        <BlockSlot @name="label">
          Delete
        </BlockSlot>
        <BlockSlot @name="confirmation" as |Confirmation|>
          <Confirmation class="warning">
            <BlockSlot @name="header">
              Confirm delete
            </BlockSlot>
            <BlockSlot @name="body">
              <p>
                Are you sure you want to delete this header?
              </p>
            </BlockSlot>
          </Confirmation>
        </BlockSlot>
      </Action>
    </Actions>
  </BlockSlot>
</ListCollection>
```
```go
// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity
}
```
// no documentation yet
Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

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

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

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

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

// no documentation yet
WorkloadType_Id *int `json:"workloadType_Id,omitempty" xmlrpc:"workloadType_Id,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

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

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

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

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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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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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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.

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* @(#)TimeZone.java    1.51 00/01/19
*
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* Corporation and others. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZone.java
No license file was found, but licenses were detected in source scan.

/****************************************************************************
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****************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CaseFoldTransliterator.java
No license file was found, but licenses were detected in source scan.

/****************************************************************************
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****************************************************************************

* ContractionsAndExpansions.java, ported from collationsets.h/.cpp
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/

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

;/*
***********************************************************************
* Copyright (C) 2014, International Business Machines Corporation and
* others. All Rights Reserved.
***********************************************************************
*/

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;/*
***********************************************************************
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* others. All Rights Reserved.
***********************************************************************
*/

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

;/*
***********************************************************************
* Copyright (C) 2003-2011, International Business Machines Corporation and others. All Rights Reserved.
***********************************************************************
*/

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

;/*
***********************************************************************
* Copyright (C) 2013-2014, International Business Machines Corporation and
* others. All Rights Reserved.
***********************************************************************
*/
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/text/UFieldPosition.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/text/QuantityFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/text/PluralSamples.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ChineseCalendar.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/OverlayBundle.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
No license file was found, but licenses were detected in source scan.

Known license(s):
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* Corporation and others. All Rights Reserved.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java
No license file was found, but licenses were detected in source scan.

Known license(s):
* IterCollationIterator.java, ported from uitercollationiterator.h/.cpp
* C++ version created on: 2012sep23 (from utf16collationiterator.h)
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/IterCollationIterator.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
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*******************************************************************************
* FCDUTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/FCDUTF16CollationIterator.java
No license file was found, but licenses were detected in source scan.

/*
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 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalFormat.java
No license file was found, but licenses were detected in source scan.

/*
***************************************************************************
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* and others. All rights reserved.                                     *
***************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISymbolTable.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
* Copyright (C) 2009-2015, International Business Machines Corporation and *
* others. All Rights Reserved.                                              *
*******************************************************************************
*/
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleDisplayNamesImpl.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyDisplayNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LocaleDisplayNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyMetaInfo.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnitAmount.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TrieIterator.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationData.java
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*
  **************************************************************************************
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   * others. All Rights Reserved.                                                *
   **************************************************************************************
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Quantifier.java
No license file was found, but licenses were detected in source scan.

/**
   **************************************************************************************
   * Copyright (C) 2003-2014, International Business Machines Corporation and      *
   * others. All Rights Reserved.                                                *
   **************************************************************************************
   * Partial port from ICU4C's Grego class in i18n/gregoimp.h.                   *
   * Methods ported, or moved here from OlsonTimeZone, initially                  *
   * for work on Jitterbug 5470:                                                 *
   * tzdata2006n Brazil incorrect fall-back date 2009-mar-01                     *
   * Only the methods necessary for that work are provided - this is not a full    *
   * port of ICU4C's Grego class (yet).                                          *
   *                                                                            *
   * These utilities are used by both OlsonTimeZone and SimpleTimeZone.           *
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/impl/Grego.java
No license file was found, but licenses were detected in source scan.

/*
   **************************************************************************************
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   * Corporation and others. All Rights Reserved.                                *
   **************************************************************************************
   * UTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp      *
   * C++ version created on: 2010oct27                                           *
   * created by: Markus W. Scherer                                               *
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/impl/coll=UTF16CollationIterator.java
No license file was found, but licenses were detected in source scan.

/*
   *********************************************************
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   *********************************************************
   * created on: 2011jul14
   * created by: Markus W. Scherer
   */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePatternUtil.java
No license file was found, but licenses were detected in source scan.

// All Rights Reserved.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleBuilder.java
No license file was found, but licenses were detected in source scan.

/*
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   */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TextTrieMap.java
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   */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleParseTable.java
No license file was found, but licenses were detected in source scan.

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   *********************************************************
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrie.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/StringPrepDataReader.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LanguageTag.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LanguageTag.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUData.java
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 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ReplaceableContextIterator.java
No license file was found, but licenses were detected in source scan.

/

/*
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 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRulesSerialProxy.java
No license file was found, but licenses were detected in source scan.

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

/*
*******************************************************************************
* Copyright (C) 2012-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*******************************************************************************
* CollationFCD.java, ported from collationfcd.h/.cpp
*
* C++ version created on: 2012aug18
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationFCD.java
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/*
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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Transform.java
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBITableBuilder.java
No license file was found, but licenses were detected in source scan.

/*
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* others. All Rights Reserved.                                              *
*******************************************************************************
*/

/*
**
* <code>RuleBasedTransliterator</code> is a transliterator
* that reads a set of rules in order to determine how to perform
translations. Rule sets are stored in resource bundles indexed by name. Rules within a rule set are separated by semicolons (';'). To include a literal semicolon, prefix it with a backslash ('\'). Unicode Pattern_White_Space is ignored. If the first non-blank character on a line is '#', the entire line is ignored as a comment. <p>
</p>

Each set of rules consists of two groups, one forward, and one reverse. This is a convention that is not enforced; rules for one direction may be omitted, with the result that translations in that direction will not modify the source text. In addition, bidirectional forward-reverse rules may be specified for symmetrical transformations.</p>

Rule syntax</p> <p>

Rule statements take one of the following forms: </p>

**Variable definition.** The name on the left is assigned the text on the right. In this example, after this statement, instances of the left hand name, &quot;$alefmadda&quot;, will be replaced by the Unicode character U+0622. Variable names must begin with a letter and consist only of letters, digits, and underscores. Case is significant. Duplicate names cause an exception to be thrown, that is, variables cannot be redefined. The right hand side may contain well-formed text of any length, including no text at all (&quot;$empty=&;&quot;). The right hand side may contain embedded patterns, for example, &quot;$softvowel=[eiyEIY]&quot;.</p>

Forward translation rule. This rule states that the string on the left will be changed to the string on the right when performing forward transliteration. 

Reverse translation rule. This rule states that the string on the right will be changed to the string on the left when performing reverse transliteration.

<dl>
    <dt>$alefmadda=\u0622;</dt>
    <dd>Variable definition. The name on the left is assigned the text on the right. In this example, after this statement, instances of the left hand name, &quot;$alefmadda&quot;, will be replaced by the Unicode character U+0622. Variable names must begin with a letter and consist only of letters, digits, and underscores. Case is significant. Duplicate names cause an exception to be thrown, that is, variables cannot be redefined. The right hand side may contain well-formed text of any length, including no text at all (&quot;$empty=&;&quot;). The right hand side may contain embedded patterns, for example, &quot;$softvowel=[eiyEIY]&quot;.</dd>
    <dd>&nbsp;</dd>
    <dt>ai&gt;$alefmadda;</dt>
    <dd>Forward translation rule. This rule states that the string on the left will be changed to the string on the right when performing forward transliteration.</dd>
    <dt>&nbsp;</dt>
    <dt>ai&lt;$alefmadda;</dt>
    <dd>Reverse translation rule. This rule states that the string on the right will be changed to the string on the left when performing reverse transliteration.</dd>
</dl>
Bidirectional translation rule. This rule states that the string on the right will be changed to the string on the left when performing forward transliteration, and vice versa when performing reverse transliteration.

Translation rules consist of a match pattern and an output string. The match pattern consists of literal characters, optionally preceded by context, and optionally followed by context. Context characters, like literal pattern characters, must be matched in the text being transliterated. However, unlike literal pattern characters, they are not replaced by the output text. For example, the pattern "abc{def}" indicates the characters "def" must be preceded by "abc" for a successful match. If there is a successful match, "def" will be replaced, but not "abc". The final '}' is optional, so "abc{def}" is equivalent to "abc{def}". Another example is "{123}456" in which the literal pattern "123" must be followed by "456".

The output string of a forward or reverse rule consists of characters to replace the literal pattern characters. If the output string contains the character '<code>@</code>', this is taken to indicate the location of the cursor after replacement. The cursor is the point in the text at which the next replacement, if any, will be applied. The cursor is usually placed within the replacement text; however, it can actually be placed into the preceding or following context by using the special character '<code>@</code>'. Examples:

UnicodeSet patterns may appear anywhere that makes sense. They may appear in variable definitions. Contrariwise, UnicodeSet patterns may themselves contain variable references, such as '\textbackslash{a}=[\textbackslash{a}..\textbackslash{z}];\textbackslash{n}ot\_a=[^\textbackslash{a}]\textbackslash{a}'; or '\textbackslash{r}ange=[a..z];\textbackslash{l}=[\textbackslash{r}ange]'.

UnicodeSet
* `<p>`*<code>UnicodeSet</code>`*</p> patterns may also be embedded directly
* into rule strings. Thus, the following two rules are equivalent:</p>
*  
* `<blockquote>`
*  
* `<p>`*<code>$vowel=[aeiou]; $vowel&gt;'*'; # One way to do this<br>`
*  
* `[aeiou]&gt;'*';
*  
* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n...
This is done by including a virtual anchor character `<code>$</code>` at the end of the set pattern. Although this is usually the match character for the end anchor, the set will match either the beginning or the end of the text, depending on its placement. For example:

```
x = [a-z$]; # match 'a' through 'z' OR anchor
x 1 &gt; 2; # match '1' after a-z or at the start
&nb$; 3 $x &gt; 4; # match '3' before a-z or at the end
```

The following example rules illustrate many of the features of the rule language.

```
<p>| Rule 1. | abc{def}&gt;x|y |
|-----------------|-----------------|</p>
<table>
<thead>
<tr>
<th>Rule 2.</th>
<th>xyz&gt;r</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule 3.</td>
<td>yz&gt;q</td>
</tr>
</tbody>
</table>
```

Applying these rules to the string "adefabcdefz" yields the following results:

```
|adefabcdefz| Initial state, no rules match. Advance cursor.
|-----------------|-----------------|
|adefabcdefz| Still no match. Rule 1 does not match because the preceding context is not present.
|-----------------|-----------------|
|adefabcdefz| Still no match. Keep advancing until
```

---

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There is a match...

Although "xyz" is present, rule 2 does not match because the cursor is before the "y". Rule 3 does match. Replace "yz" with "q".

The cursor is at the end; transliteration is complete.

The order of rules is significant. If multiple rules may match at some point, the first matching rule is applied.

Forward and reverse rules may have an empty output string. Otherwise, an empty left or right hand side of any statement is a syntax error.

Single quotes are used to quote any character other than a digit or letter. To specify a single quote itself, inside or
* outside of quotes, use two single quotes in a row. For example, * the rule &quot;&lt;code&gt;&amp;gt;&amp;#x;o'clock&lt;/code&gt;&quot; changes the * string &quot;&lt;code&gt;&amp;gt;&lt;/code&gt;&quot; to the string &quot;&lt;code&gt;0'clock&lt;/code&gt;&quot;.*

* </p>*<p>

* <p><b>Notes</b> </p>*

* While a RuleBasedTransliterator is being built, it checks that * the rules are added in proper order. For example, if the rule * &quot;&lt;code&gt;a&lt;/code&gt;&quot; is followed by the rule &quot;&lt;code&gt;ab&lt;/code&gt;&quot;, * then the second rule will throw an exception. The reason is that * the second rule can never be triggered, since the first rule * always matches anything it matches. In other words, the first * rule &lt;em&gt;masks&lt;/em&gt; the second rule. </p>

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* @author Alan Liu
* @internal
* @deprecated This API is ICU internal only.
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedTransliterator.java
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ListFormatter.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ArabicShaping.java
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/*
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*******************************************************************************
* created on: 2011jan05
* created by: Markus W. Scherer
* ported from ICU4C stringtriebuilder.h/.cpp
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/StringTrieBuilder.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterNameChoice.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiLine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Bidi.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
* Date Name Description
* 11/19/2001 aliu Creation.
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnescapeTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/EscapeTransliterator.java
No license file was found, but licenses were detected in source scan.

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* *******************************************************************************
* CollationLoader.java, ported from ucol_res.cpp
* *
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationLoader.java
No license file was found, but licenses were detected in source scan.

/ *
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* others. All Rights Reserved.                                                *
*******************************************************************************
*
/ *
*******************************************************************************
* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/NumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/DigitList.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/NFRuleSet.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/BreakIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/NFRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/RuleBasedNumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/impl/PVecToTrieCompactHandler.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/impl/Utility.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/util/IslamicCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/DecimalFormatSymbols.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/NFSubstitution.java
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/text/SearchIterator.java

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/ibm/icu/impl/PVecToTrieCompactHandler.java

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*****************************************************************************/

/**
 * [@icuenhanced java.text.DateFormatSymbols].{@icu _usage_}
 * <p><code>DateFormatSymbols</code> is a public class for encapsulating
 * localizable date-time formatting data, such as the names of the
 * months, the names of the days of the week, and the time zone data.
 * <code>DateFormat</code> and <code>SimpleDateFormat</code> both use
 * <code>DateFormatSymbols</code> to encapsulate this information.
 *
 * Typically you shouldn't use <code>DateFormatSymbols</code> directly.
 * Rather, you are encouraged to create a date-time formatter with the
 * <code>DateFormat</code> class's factory methods: <code>getInstance</code>,
 * <code>getDateTimeInstance</code>, or <code>getTimeInstance</code>.
 * These methods automatically create a <code>DateFormatSymbols</code> for
 * the formatter so that you don't have to. After the
* formatter is created, you may modify its format pattern using the
  * `setPattern()` method. For more information about
  * creating formatters using `DateFormat`’s factory methods,
  * see [@link DateFormat].
  *
  * `<p>` If you decide to create a date-time formatter with a specific
  * format pattern for a specific locale, you can do so with:
  * `<blockquote`
  * `<pre>`
  * new SimpleDateFormat(aPattern, new DateFormatSymbols(aLocale)).
  * `</pre>`
  * `</blockquote>`
  *
  * `<p>` `DateFormatSymbols` objects are clonable. When you obtain
  * a `DateFormatSymbols` object, feel free to modify the
  * date-time formatting data. For instance, you can replace the localized
  * date-time format pattern characters with the ones that you feel easy
  * to remember. Or you can change the representative cities
  * to your favorite ones.
  *
  * `<p>` New `DateFormatSymbols` subclasses may be added to support
  * `SimpleDateFormat` for date-time formatting for additional locales.
  *
  * @see       DateFormat
  * @see       SimpleDateFormat
  * @see       com.ibm.icu.util.SimpleTimeZone
  * @author    Chen-Lieh Huang
  * @stable    ICU 2.0
  */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormatSymbols.java
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/*
* *******************************************************************************
* *
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* *
* *******************************************************************************
* *
* file name: UCaseProps.java
* encoding:  US-ASCII
* tab size:  8 (not used)
* indentation:4
* *
* created on: 2005Jan29
* created by: Markus W. Scherer
*/
* Low-level Unicode character/string case mapping code.
* Java port of ucase.h/c.
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCaseProps.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Output.java
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*/

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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/AlphabeticIndex.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringMatcher.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeMatcher.java
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/*

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleData.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/MathContext.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Normalizer2Impl.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer2.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISetBuilder.java
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/

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*******************************************************************************
* created on: 2011feb25
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternProps.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GlobalizationPreferences.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ClassLoaderUtil.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResource.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodBuilderFactory.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatterFactory.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRanges.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedCollator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UTF16.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacter.java

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRules.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DurationFormat.java

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/ico/impl/TimeZoneGenericNames.java

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/*
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 */
/**
 * <code>Replaceable</code> is an interface representing a
 * string of characters that supports the replacement of a range of
 * itself with a new string of characters. It is used by APIs that
 * change a piece of text while retaining metadata. Metadata is data
 * other than the Unicode characters returned by char32At(). One
 * example of metadata is style attributes; another is an edit
 * history, marking each character with an author and revision number.
 *
 * <p>An implicit aspect of the <code>Replaceable</code> API is that
 * during a replace operation, new characters take on the metadata of
 * the old characters. For example, if the string "the <b>bold</b>/b>
 * font" has range (4, 8) replaced with "strong", then it becomes "the
 * <b>strong</b>/b> font".
 *
 * <p><code>Replaceable</code> specifies ranges using a start
 * offset and a limit offset. The range of characters thus specified
 * includes the characters at offset start..limit-1. That is, the
 * start offset is inclusive, and the limit offset is exclusive.
 *
 * <p><code>Replaceable</code> also includes API to access characters
 * in the string: <code>length()</code>, <code>charAt()</code>,
 * <code>char32At()</code>, and <code>extractBetween()</code>.
 *
 * <p>For a subclass to support metadata, typical behavior of
 * <code>replace()</code> is the following:
 * <ul>
 * <li>Set the metadata of the new text to the metadata of the first
 * character replaced</li>
 * <li>If no characters are replaced, use the metadata of the
 * previous character</li>
 * <li>If there is no previous character (i.e. start == 0), use the
 * following character</li>
 * <li>If there is no following character (i.e. the replaceable was
 * empty), use default metadata</li>
 * <li>If the code point U+FFFF is seen, it should be interpreted as
 * a special marker having no metadata</li>
 * </ul>
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/*
******************************************************************************
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******************************************************************************
* CollationSettings.java, ported from collationsettings.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/

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******************************************************************************
* CollationDataReader.java, ported from collationdatareader.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UPropertyAliases.java
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*
******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UnicodeSetStringSpan.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/BMPSet.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Freezable.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_sbcs.java
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*
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_mbcs.java
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*******************************************************************************
* CollationRootElements.java, ported from collationrootelements.h/.cpp *
* C++ version created on: 2013mar01                                      *
* created by: Markus W. Scherer                                         *
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRootElements.java
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*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BuddhistCalendar.java
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 ************************************************************************************
 * CollationDataBuilder.java, ported from collationdatabuilder.h/.cpp
 *
 * C++ version created on: 2012apr01
 * created by: Markus W. Scherer
 */

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/*
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DangiCalendar.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollatorServiceShim.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/InternalLocaleBuilder.java
  * /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/BaseLocale.java
  * /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleObjectCache.java
  * /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/AsciiUtil.java
  * /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/Extension.java
  * /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleExtensions.java

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetMatch.java
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* Unicode Spoof Detection
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SpoofChecker.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/DontCareFieldPosition.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundleIterator.java

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CurrencyServiceShim.java

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 */

* Date  Name  Description
* 01/14/2002  aliu  Creation.

*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeNameTransliterator.java

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UnicodeRegex.java
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******************************************************************************
*/

// Hashing implementation functions. FNV hash. Respected public domain algorithm.

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IterableComparator.java
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* Author: Mark Davis
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
  jar/com/ibm/icu/impl/ICUCurrencyDisplayInfoProvider.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_32.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
  jar/com/ibm/icu/impl/ICUResourceTableAccess.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_16.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeDecompressor.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeCompressor.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/CharSequences.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CECalendar.java
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/*

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatter.java
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/*

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BurmeseBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ThaiBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LaoBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/KhmerBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnhandledBreakEngine.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsDictionaryMatcher.java
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******************************************************************************
A set of rules for a `<code>RuleBasedTransliterator</code>`. This set encodes the transliteration in one direction from one set of characters or short strings to another. A `<code>RuleBasedTransliterator</code>` consists of up to two such sets, one for the forward direction, and one for the reverse.

A `<code>TransliterationRuleSet</code>` has one important operation, that of finding a matching rule at a given point in the text. This is accomplished by the `<code>findMatch()</code>` method.

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UScriptRun.java
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/*
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*******************************************************************************
* CollationFastLatin.java, ported from collationfastlatin.h/.cpp
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationFastLatin.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CompactDecimalFormat.java
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jar/com/ibm/icu/impl/text/RbnfScannerProviderImpl.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/lang/UCharacterNameIterator.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/impl/ResourceBasedPeriodFormatterDataService.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RelativeDateTimeFormatter.java
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/**
 * DateIntervalInfo is a public class for encapsulating localizable
 * date time interval patterns. It is used by DateIntervalFormat.
 *
 * For most users, ordinary use of DateIntervalFormat does not need to create
 * DateIntervalInfo object directly.
 * DateIntervalFormat will take care of it when creating a date interval
 * formatter when user pass in skeleton and locale.
 *
 * For power users, who want to create their own date interval patterns,
 * or want to re-set date interval patterns, they could do so by
 * directly creating DateIntervalInfo and manipulating it.
 *
 * Logically, the interval patterns are mappings
 * from (skeleton, the_largest_different_calendar_field)
 * to (date_interval_pattern).
 *
 * A skeleton
 *
 * only keeps the field pattern letter and ignores all other parts
 * in a pattern, such as space, punctuations, and string literals.
 * hides the order of fields.
 * might hide a field's pattern letter length.
 *
 * For those non-digit calendar fields, the pattern letter length is
 * important, such as MMM, MMMM, and MMMMM; EEE and EEEE,
 * and the field's pattern letter length is honored.
 *
 * For the digit calendar fields, such as M or MM, d or dd, yy or yyyy,
* the field pattern length is ignored and the best match, which is defined
* in date time patterns, will be returned without honor the field pattern
* letter length in skeleton.
* </ol>
* 
* <p>
* The calendar fields we support for interval formatting are:
* year, month, date, day-of-week, am-pm, hour, hour-of-day, minute, and
* second (though we do not currently have specific intervalFormat data for
* skeletons with seconds).
* Those calendar fields can be defined in the following order:
* year > month > date > am-pm > hour > minute > second
*
* The largest different calendar fields between 2 calendars is the
* first different calendar field in above order.
*
* For example: the largest different calendar fields between "Jan 10, 2007"
* and "Feb 20, 2008" is year.
* 
* <p>
* There is a set of pre-defined static skeleton strings.
* There are pre-defined interval patterns for those pre-defined skeletons
* in locales' resource files.
* For example, for a skeleton YEAR_ABBR_MONTH_DAY, which is "yMMMd",
* in en_US, if the largest different calendar field between date1 and date2
* is "year", the date interval pattern is "MMM d, yyyy - MMM d, yyyy",
* such as "Jan 10, 2007 - Jan 10, 2008".
* If the largest different calendar field between date1 and date2 is "month",
* the date interval pattern is "MMM d - MMM d, yyyy",
* such as "Jan 10 - Feb 10, 2007".
* If the largest different calendar field between date1 and date2 is "day",
* the date interval pattern is ""MMM d-d, yyyy", such as "Jan 10-20, 2007".
*
* For date skeleton, the interval patterns when year, or month, or date is
* different are defined in resource files.
* For time skeleton, the interval patterns when am/pm, or hour, or minute is
* different are defined in resource files.
*
*
* <p>
* There are 2 dates in interval pattern. For most locales, the first date
* in an interval pattern is the earlier date. There might be a locale in which
* the first date in an interval pattern is the later date.
* We use fallback format for the default order for the locale.
* For example, if the fallback format is "{0} - {1}", it means
* the first date in the interval pattern for this locale is earlier date.
* If the fallback format is "{1} - {0}", it means the first date is the
* later date.
* For a particular interval pattern, the default order can be overridden by prefixing "latestFirst:" or "earliestFirst:" to the interval pattern.
* For example, if the fallback format is "[0]-[1]", but for skeleton "yMMMd", the interval pattern when day is different is "latestFirst:d-d MMM yy", it means by default, the first date in interval pattern is the earlier date. But for skeleton "yMMMd", when day is different, the first date in "d-d MMM yy" is the later date.

* <P>
* The recommended way to create a DateIntervalFormat object is to pass in the locale.
* By using a Locale parameter, the DateIntervalFormat object is initialized with the pre-defined interval patterns for a given or default locale.

* <P>
* Users can also create DateIntervalFormat object by supplying their own interval patterns.
* It provides flexibility for power usage.

* <P>
* After a DateIntervalInfo object is created, clients may modify the interval patterns using setIntervalPattern function as so desired.
* Currently, users can only set interval patterns when the following calendar fields are different: ERA, YEAR, MONTH, DATE, DAY_OF_MONTH, DAY_OF_WEEK, AM_PM, HOUR, HOUR_OF_DAY, MINUTE and SECOND.
* Interval patterns when other calendar fields are different is not supported.

* <P>
* DateIntervalInfo objects are cloneable.
* When clients obtain a DateIntervalInfo object, they can feel free to modify it as necessary.

* <P>
* DateIntervalInfo are not expected to be subclassed.
* Data for a calendar is loaded out of resource bundles.
* Through ICU 4.4, date interval patterns are only supported in the Gregoria calendar; non-Gregorian calendars are supported from ICU 4.4.1.

* @stable ICU 4.0
*/

Found in path(s):
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalInfo.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_it.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_da.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_es.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_el.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SymbolTable.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_iw.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de.java
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*******************************************************************************
* Author: M. Davis
* Created: December 2002 (moved from UnicodeSet)
* Since: ICU 2.4
*******************************************************************************
* /

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SortedSetRelation.java
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* CollationKeys.java, ported from collationkeys.h/.cpp
* C++ version created on: 2012sep02
* created by: Markus W. Scherer
*******************************************************************************
* /

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationKeys.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDs.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Norm2AllModes.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringPrep.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/BigDecimal.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Punycode.java

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ULocale.java
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 *
 * created on: 2011jan07
 * created by: Markus W. Scherer
 * ported from ICU4C ucharstriebuilder/.cpp
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrieBuilder.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneNamesFactoryImpl.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterProperty.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUBinary.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ReplaceableUCharacterIterator.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CjkBreakEngine.java
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/**
Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/util/StringTokenizer.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/impl/coll/CollationRoot.java
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* CollationRoot.java, ported from collationroot.h/.cpp
*
* C++ version created on: 2012dec17
* created by: Markus W. Scherer
*/

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/impl/coll/CollationRoot.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatterFactory.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DurationFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnitConstants.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordWriter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DateFormatter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/Period.java

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* 06/08/01 aliu     Creation.
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NormalizationTransliterator.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/BOCSU.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UProperty.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollationElementIterator.java
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*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Holiday.java
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LowercaseTransliterator.java
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarAstronomer.java
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UppercaseTransliterator.java
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarCache.java
*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IndianCalendar.java
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*/opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/SimpleFilteredSentenceBreakIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ICUUncheckedIOException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ICUCloneNotSupportedException.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TZDBTimeZoneNames.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetSpanner.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRuleParser.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterName.java
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 *
 * Author: Alan Liu
 * Created: October 2 2003
 * Since: ICU 2.8
 *********************************************************
 */

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneAdapter.java
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 * created by: Markus W. Scherer
 */

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactByteArray.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactCharArray.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/PersianCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringCharacterIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RemoveTransliterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ComposedCharIter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeFilter.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CanonicalIterator.java

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 * created by: Markus W. Scherer
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 */
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrieBuilder.java
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**********************************************************************
* Author: Alan Liu
* Created: April 12, 2004
* Since: ICU 3.0
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*/

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*   01/14/2002  aliu        Creation.
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeReplacer.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/ResourceReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Currency.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeValueIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrieBuilder.java
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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ByteArrayWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RawCollationKey.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ByteArrayList.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RawCollationKey.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GregorianCalendar.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorIDParser.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/UnicodeLocaleExtension.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScanner.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyPluralInfo.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScannerProvider.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCurrencyMetaInfo.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UniversalTimeScale.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleUtility.java
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/*
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 *******************************************************************************
 * CollationFastLatinBuilder.java, ported from collationfastlatinbuilder.h/.cpp
 * 
 * C++ version created on: 2013aug09
 * created by: Markus W. Scherer
 */

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 */
/**
 * <code>Transliterator</code> is an abstract class that transliterates text from one format to another. The most
 * kind of transliterator is a script, or alphabet, transliterator. For example, a Russian to Latin transliterator
 * changes Russian text written in Cyrillic characters to phonetically equivalent Latin characters. It does not
 * <em>translate</em> Russian to English! Transliteration, unlike translation, operates on characters, without
 * reference to the meanings of words and sentences.
 *
 * Although script conversion is its most common use, a transliterator can actually perform a more general class of
 * tasks. In fact, <code>Transliterator</code> defines a very general API which specifies only that a segment of the
 * input text is replaced by new text. The particulars of this conversion are determined entirely by subclasses of
 * <code>Transliterator</code>.
 *
 * <b>Transliterators are stateless</b>
 *
 * <code>Transliterator</code> objects are <em>stateless</em>; they retain no information between calls to
 * <code>transliterate()</code>. As a result, threads may share transliterators without synchronizing them. This
 * might
 * seem to limit the complexity of the transliteration operation. In practice, subclasses perform complex
 * transliterations by delaying the replacement of text until it is known that no other replacements are possible. In
 * other words, although the <code>Transliterator</code> objects are stateless, the source text itself embodies all the
 * needed information, and delayed operation allows arbitrary complexity.
 *
 * <b>Batch transliteration</b>
 *
 * The simplest way to perform transliteration is all at once, on a string of existing text. This is referred to as
 * <em>batch</em> transliteration. For example, given a string <code>input</code> and a transliterator
 * <code>t</code>,
 * the call
 *
 * <blockquote><code>String result = t.transliterate(input);
 * </code></blockquote>
Other methods allow the client to specify a substring to be transliterated and to use \{ @link Replaceable \} objects instead of strings, in order to preserve out-of-band information (such as text styles).

Somewhat more involved is <em>keyboard</em>, or incremental transliteration. This is the transliteration of text that is arriving from some source (typically the user's keyboard) one character at a time, or in some other piecemeal fashion.

In keyboard transliteration, a <code>Replaceable</code> buffer stores the text. As text is inserted, as much as possible is transliterated on the fly. This means a GUI that displays the contents of the buffer may show text being modified as each new character arrives.

Consider the simple <code>RuleBasedTransliterator</code>:

```
<blockquote><code>
th{\theta}
t{\tau}
</code></blockquote>
```

When the user types 't', nothing will happen, since the transliterator is waiting to see if the next character is 'h'. To remedy this, we introduce the notion of a cursor, marked by a '↑' in the output string:

```
<blockquote><code>
t{\tau}h{\theta}
</code></blockquote>
```

Now when the user types 't', tau appears, and if the next character is 'h', the tau changes to a theta. This is accomplished by maintaining a cursor position (independent of the insertion point, and invisible in the GUI) across calls to <code>transliterate()</code>. Typically, the cursor will be coincident with the insertion point, but in a case like the one above, it will precede the insertion point.

Keyboard transliteration methods maintain a set of three indices that are updated with each call to <code>transliterate()</code>, including the cursor, start, and limit. These indices are changed by the method, and they are passed in and out via a Position object. The <code>start</code> index marks the beginning of the substring that the transliterator will look at. It is advanced as text becomes committed (but it is not the committed index; that's the <code>cursor</code>). The <code>cursor</code> index, described above, marks the point at which the transliterator last stopped, either because it reached the end, or because it required more characters to
* disambiguate between possible inputs. The `<code>cursor</code>` can also be explicitly set by rules in a
* `RuleBasedTransliterator`. Any characters before the `<code>cursor</code>` index are frozen; future keyboard
* transliteration calls within this input sequence will not change them. New text is inserted at the
* `<code>limit</code>` index, which marks the end of the substring that the transliterator looks at.
*
* `<p>`
* Because keyboard transliteration assumes that more characters are to arrive, it is conservative in its operation. It
* only transliterates when it can do so unambiguously. Otherwise it waits for more characters to arrive. When the
* client code knows that no more characters are forthcoming, perhaps because the user has performed some input
* termination operation, then it should call `<code>finishTransliteration()</code>` to complete any pending
* transliterations.
* `<p>`
* `<b>Inverses</b>`
* `<p>`
* Pairs of transliterators may be inverses of one another. For example, if transliterator `<b>A</b>` transliterates
* characters by incrementing their Unicode value (so "abc" -> "def"), and transliterator `<b>B</b>` decrements character
* values, then `<b>A</b>` is an inverse of `<b>B</b>` and vice versa. If we compose `<b>A</b>` with `<b>B</b>` in a compound
* transliterator, the result is the identity transliterator, that is, a transliterator that does not change its input
* text.
* `<p>`
* The `<code>Transliterator</code>` method `<code>getInverse()</code>` returns a transliterator's inverse, if one exists.
* or `<code>null</code>` otherwise. However, the result of `<code>getInverse()</code>` usually will `<em>not</em>` be a true
* mathematical inverse. This is because true inverse transliterators are difficult to formulate. For example, consider
* two transliterators: `<b>AB</b>`, which transliterates the character 'A' to 'B', and `<b>BA</b>`, which transliterates
* 'B' to 'A'. It might seem that these are exact inverses, since
* `<blockquote>
    "A" x <b>AB</b> -> "B"
    "B" x <b>BA</b> -> "A"
  </blockquote>`
* where 'x' represents transliteration. However,
* `<blockquote>
    "ABCD" x <b>AB</b> -> "BBCD"
    "BBCD" x <b>BA</b> -> "AACD"
  </blockquote>`
* so `<b>AB</b>` composed with `<b>BA</b>` is not the identity. Nonetheless, `<b>BA</b>` may be usefully considered to be
* `<b>AB</b>`'s inverse, and it is on this basis that `<b>AB</b>`'s `<code>getInverse()</code>` could legitimately return
* `<b>BA</b>`.
* `<p>`
Filtering

Each transliterator has a filter, which restricts changes to those characters selected by the filter. The filter affects just the characters that are changed -- the characters outside of the filter are still part of the context for the filter. For example, in the following even though 'x' is filtered out, and doesn't convert to y, it does affect the conversion of 'a'.

```java
String rules = "x > y; x[a] > b; ";
Transliterator tempTrans = Transliterator.createFromRules(rules, Transliterator.FORWARD);
tempTrans.setFilter(new UnicodeSet(\[a\]);
String tempResult = tempTrans.transform(\xa\);
// results in \xb\n```

IDs and display names

A transliterator is designated by a short identifier string or ID. IDs follow the format source-destination, where source describes the entity being replaced, and destination describes the entity replacing source. The entities may be the names of scripts, particular sequences of characters, or whatever else it is that the transliterator converts to or from. For example, a transliterator from Russian to Latin might be named "Russian-Latin". A transliterator from keyboard escape sequences to Latin-1 characters might be named "KeyboardEscape-Latin1". By convention, system entity names are in English, with the initial letters of words capitalized; user entity names may follow any format so long as they do not contain dashes.

In addition to programmatic IDs, transliterator objects have display names for presentation in user interfaces, returned by `getDisplayName`.

Factory methods and registration

In general, client code should use the factory method `getInstance()` to obtain an instance of a transliterator given its ID. Valid IDs may be enumerated using `getAvailableIDs()`. Since transliterators are stateless, multiple calls to `getInstance()` with the same ID will return the same object.

In addition to the system transliterators registered at startup, user transliterators may be registered by calling `registerInstance()` at run time. To register a transliterator subclass without instantiating it (until it is needed), users may call `registerClass()`.

Composed transliterators
In addition to built-in system transliterators like "Latin-Greek", there are also built-in composed transliterators. These are implemented by composing two or more component transliterators. For example, if we have scripts "A", "B", "C", and "D", and we want to transliterate between all pairs of them, then we need to write 12 transliterators: "A-B", "A-C", "A-D", "B-A", "B-C", "B-D", "C-A", "C-B", "C-D", "D-A", "D-B", "D-C". If it is possible to convert all scripts to an intermediate script "M", then instead of writing 12 rule sets, we only need to write 8: "A~M", "B~M", "C~M", "D~M", "M~A", "M~B", "M~C", "M~D". (This might not seem like a big win, but it's really 2^n vs. n^2 - n, so as n gets larger the gain becomes significant. With 9 scripts, it's 18 vs. 72 rule sets, a big difference.) Note the use of "~" rather than "-" for the script separator here; this indicates that the given transliterator is intended to be composed with others, rather than be used as is.

Composed transliterators can be instantiated as usual. For example, the system transliterator "Devanagari-Gujarati" is a composed transliterator built internally as "Devanagari-InterIndic;InterIndic-Gujarati". When this transliterator is instantiated, it appears externally to be a standard transliterator (e.g., getID() returns "Devanagari-Gujarati").

Subclasses must implement the abstract method <code>handleTransliterate()</code>. Subclasses should override the <code>transliterate()</code> method taking a <code>Replaceable</code> and the <code>transliterate()</code> method taking a <code>String</code> and <code>StringBuffer</code> if the performance of these methods can be improved over the performance obtained by the default implementations in this class.
* Author: Alan Liu
* Created: April 6, 2004
* Since: ICU 3.0

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A transliteration rule used by
<code>RuleBasedTransliterator</code>.  
<code>TransliterationRule</code> is an immutable object.

A rule consists of an input pattern and an output string. When
the input pattern is matched, the output string is emitted. The
input pattern consists of zero or more characters which are matched
exactly (the key) and optional context. Context must match if it
is specified. Context may be specified before the key, after the
key, or both. The key, preceding context, and following context
may contain variables. Variables represent a set of Unicode
characters, such as the letters <i>a</i> through <i>z</i>.
Variables are detected by looking up each character in a supplied
variable list to see if it has been so defined.

A rule may contain segments in its input string and segment
references in its output string. A segment is a substring of the
input pattern, indicated by an offset and limit. The segment may
be in the preceding or following context. It may not span a
context boundary. A segment reference is a special character in
the output string that causes a segment of the input string (not
the input pattern) to be copied to the output string. The range of
special characters that represent segment references is defined by
<code>RuleBasedTransliterator.Data</code>.

Example: The rule "([a-z]). ([0-9]) > $2 . $1" will change the input
string "abc.123" to "ab1.c23".

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_da_DK.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_CA.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_GB.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_el_GR.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_es_MX.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/implement/CharacterIteratorWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/implement/data/HolidayBundle_iw_IL.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewHoliday.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/implement/data/HolidayBundle_fr_FR.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeDateRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VTimeZone.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BasicTimeZone.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RuleBasedTimeZone.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VTTimeZone.java
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/*
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*******************************************************************************
* SharedObject.java, ported from sharedobject.h/cpp
* C++ version created on: 2013dec19
* created by: Markus W. Scherer
*/

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/SharedObject.java
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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/PeriodFormatterData.java

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Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0.0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIteratorFactory.java
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* /opt/cola/permits/1114594826_1607546183.0.0/icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundle.java
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* /opt/cola/permits/1114594826_1607546183.0.0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormat.java
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*******************************************************************************
* CollationCompare.java, ported from collationcompare.h/.cpp
* C++ version created on: 2012feb14 with new and old collation code
* created by: Markus W. Scherer
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationCompare.java
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/*
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***********************************************************************************************/
/* Author: Alan Liu
 * Created: April 20, 2004
 * Since: ICU 3.0
 ***********************************************************************************************/
*/

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Measure.java
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*/

/**
 * A transliterator that is composed of two or more other
 * transliterator objects linked together. For example, if one
 * transliterator transliterates from script A to script B, and
 * another transliterates from script B to script C, the two may be
 * combined to form a new transliterator from A to C.
 *
 * The result of compositing may not behave as expected. For
 * example, inverses may not combine to form the identity
 * transliterator. See the class documentation for @link
 */
* Transliterator} for details.
*
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* 
* @author Alan Liu
*/

Found in path(s):
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CompoundTransliterator.java
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*/

/**
*/

* <code>ReplaceableString</code> is an adapter class that implements the
* <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.
* 
* <p><em>Note:</em> This class does not support attributes and is not
* intended for general use. Most clients will need to implement
* { [@link Replaceable] in their text representation class.
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* 
* @see Replaceable
* @author Alan Liu
* @stable ICU 2.0
*/

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* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ReplaceableString.java
1.164 aws-sdk-go 1.25.41

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1.168 yarl 0.18.0

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1.169 go-toml 1.9.4

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localtime.go, localtime_test.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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1.177 agentx-levenshtein 1.2.3

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DRuntime: Runtime Library for the D Programming Language  
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<thead>
<tr>
<th>Program</th>
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1.181 flask 2.0.2

1.181.1 Available under license:

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Metadata-Version: 2.1
Name: Flask
Version: 2.0.2
Summary: A simple framework for building complex web applications.
Home-page: https://palletsprojects.com/p/flask
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, https://flask.palletsprojects.com/
Project-URL: Changes, https://flask.palletsprojects.com/changes/
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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
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Classifier: Topic :: Internet :: WWW/HTTP :: WSGI
Classifier: Topic :: Internet :: WWW/HTTP :: WSGI :: Application
Classifier: Topic :: Software Development :: Libraries :: Application Frameworks
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: async
Provides-Extra: dotenv
License-File: LICENSE.rst

Flask
Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing
----------

Install and update using `pip`_:

.. code-block:: text

    $ pip install -U Flask


A Simple Example
----------------

.. code-block:: python

    # save this as app.py
    from flask import Flask

    app = Flask(__name__)

    @app.route("/")
    def hello():
        return "Hello, World!"

.. code-block:: text

    $ flask run
    * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
Contributing
----------

For guidance on setting up a development environment and how to make a
contribution to Flask, see the `contributing guidelines`_.

.. _contributing guidelines: https://github.com/pallets/flask/blob/main CONTRIBUTING.rst

Donate
------

The Pallets organization develops and supports Flask and the libraries it uses. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://flask.palletsprojects.com/
- Changes: https://flask.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Flask/
- Source Code: https://github.com/pallets/flask/
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Flask Extension Development
================================

Flask, being a microframework, often requires some repetitive steps to get a third party library working. Many such extensions are already available on `PyPI`_.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension
-----------------------

Extensions are all located in a package called ``flask_something`` where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package ``flask_simplexml``.

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unitests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"
So let's get started with creating such a Flask extension. The extension we want to create here will provide very basic support for SQLite3.

First we create the following folder structure:

```
flask-sqlite3/
    flask_sqlite3.py
    LICENSE
    README
```

Here's the contents of the most important files:

```
setup.py
```

The next file that is absolutely required is the :file:`setup.py` file which is used to install your Flask extension. The following contents are something you can work with:

```
Flask-SQLite3
-------------
This is the description for that library

from setuptools import setup

setup(
    name='Flask-SQLite3',
    version='1.0',
    url='http://example.com/flask-sqlite3/',
    license='BSD',
    author='Your Name',
    author_email='your-email@example.com',
    description='Very short description',
    long_description=__doc__,
    py_modules=['flask_sqlite3'],
    # if you would be using a package instead use packages instead
    # of py_modules:
    # packages=['flask_sqlite3'],
    zip_safe=False,
    include_package_data=True,
    platforms='any',
    install_requires=['Flask']
)`
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

```
flask_sqlite3.py
```

Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

Initializing Extensions

----------

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

 initialization functions:

 If your extension is called `helloworld` you might have a function called `init_helloworld(app[, extra_args])` that initializes the extension for that application. It could attach before / after handlers etc.

 classes:

 Classes work mostly like initialization functions but can later be used to further change the behavior.

 What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an
object that handles opening and closing database connections.

When designing your classes, it's important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable between different applications.

The Extension Code
-------------------

Here's the contents of the `flask_sqlite3.py` for copy/paste:

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

@property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
            return ctx.sqlite3_db

So here's what these lines of code do:

1. The ``__init__`` method takes an optional app object and, if supplied, will call ``init_app``.
2. The ``init_app`` method exists so that the ``SQLite3`` object can be
instantiated without requiring an app object. This method supports the
factory pattern for creating applications. The `init_app` will set the
configuration for the database, defaulting to an in memory database if
no configuration is supplied. In addition, the `init_app` method
attaches the `teardown` handler.

3. Next, we define a `connect` method that opens a database connection.
4. Finally, we add a `connection` property that on first access opens
the database connection and stores it on the context. This is also
the recommended way to handling resources: fetch resources lazily the
first time they are used.

Note here that we're attaching our database connection to the top
application context via `app_ctx_stack.top`. Extensions should use
the top context for storing their own information with a sufficiently
complex name.

So why did we decide on a class-based approach here? Because using our
extension looks something like this::

    from flask import Flask
    from flask_sqlite3 import SQLite3

    app = Flask(__name__)
    app.config.from_pyfile('the-config.cfg')
    db = SQLite3(app)

You can then use the database from views like this::

    @app.route('/')
    def show_all():
        cur = db.connection.cursor()
        cur.execute(...)

Likewise if you are outside of a request you can use the database by
pushing an app context::

    with app.app_context():
        cur = db.connection.cursor()
        cur.execute(...)

At the end of the `with` block the teardown handles will be executed
automatically.

Additionally, the `init_app` method is used to support the factory pattern
for creating apps::

    db = SQLite3()
    # Then later on.
app = create_app('the-config.cfg')
db.init_app(app)

Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).

.. admonition:: Note on ``init_app``

As you noticed, ``init_app`` does not assign ``app`` to ``self``. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`~flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using _app_ctx_stack

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

In the example above, before every request, a ``sqlite3_db`` variable is assigned to ``_app_ctx_stack.top``. In a view function, this variable is accessible using the `connection` property of `SQLite3`. During the teardown of a request, the `sqlite3_db` connection is closed. By using this pattern, the *same* connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others

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

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions on the `PyPI`. If you feel lost there is still the `mailinglist` and the `Discord server` to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the
API. And this can only work if collaboration happens early.

Approved Extensions
---------------------

Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*. It must provide exactly one package or module named `flask_extension_name`.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension's API must have the following characteristics:

   - It must support multiple applications running in the same Python process. Use `current_app` instead of `self.app`, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the `ext.init_app()` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with `pip install -e .`.

5. It must ship a testing suite that can be invoked with `tox -e py` or `pytest`. If not using `tox`, the test dependencies should be specified in a `requirements.txt` file. The tests must be part of the sdist distribution.

6. The documentation must use the `flask` theme from the Official Pallets Themes_. A link to the documentation or project website must be in the PyPI metadata or the readme.

7. For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.6+ is recommended as of 2020. Use `python_requires=">= 3.6"` in `setup.py` to indicate supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
.. _mailinglist: https://mail.python.org/mailman/listinfo/flask
.. _Discord server: https://discord.gg/pallets
.. _Official Pallets Themes: https://pypi.org/project/Pallets-Sphinx-Themes/
Blog Blueprint
==============

You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them out.

The Blueprint
-------------

Define the blueprint and register it in the application factory.
from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
from werkzeug.exceptions import abort
from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)

Import and register the blueprint from the factory using
:meth:`app.register_blueprint() <Flask.register_blueprint>`. Place the
new code at the end of the factory function before returning the app.

.. code-block:: python
   :caption: ``flaskr/__init__.py``

def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app

Unlike the auth blueprint, the blog blueprint does not have a
``url_prefix``. So the ``index`` view will be at ``, the ``create``
view at ``, and so on. The blog is the main feature of Flaskr,
so it makes sense that the blog index will be the main index.

However, the endpoint for the ``index`` view defined below will be
``blog.index``. Some of the authentication views referred to a plain
``index`` endpoint. :meth:`app.add_url_rule() <Flask.add_url_rule>`
associates the endpoint name ``index`` with the ``, the ``,
or ``, will both work,
generating the same ``, ``, URL either way.

In another application you might give the blog blueprint a
``url_prefix`` and define a separate ``index`` view in the application
factory, similar to the ``hello`` view. Then the ``index`` and
``blog.index`` endpoints and URLs would be different.
The index will show all of the posts, most recent first. A `JOIN` is used so that the author information from the `user` table is available in the result.

```python
@bp.route('/')
def index():
    db = get_db()
    posts = db.execute(  
        'SELECT p.id, title, body, created, author_id, username  
         FROM post p JOIN user u ON p.author_id = u.id  
         ORDER BY created DESC'
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```html
{% extends 'base.html' %}
{% block header %}
    <h1>{% block title %}Posts{% endblock %}</h1>
    {% if g.user %}
        <a class="action" href="{{ url_for('blog.create') }}">New</a>
    {% endif %}
{% endblock %}

{% block content %}
    {% for post in posts %}
        <article class="post">
            <header>
                <div>
                    <h1>{{ post['title'] }}</h1>
                    <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
                </div>
                {% if g.user['id'] == post['author_id'] %}
                    <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
                {% endif %}
            </header>
            <p class="body">{{ post['body'] }}</p>
        </article>
    {% if not loop.last %}
        <hr>
    {% endif %}
    {% endfor %}
{% endblock %}
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside `Jinja for loops`. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create
------

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python
   :caption: `flaskr/blog.py`

   @bp.route('/create', methods=('GET', 'POST'))
   @login_required
def create():
    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'INSERT INTO post (title, body, author_id)
                VALUES (?, ?, ?)',
                (title, body, g.user['id'])
            )

            # ...
.. code-block:: html+jinja
   :caption: ``flaskr/templates/blog/create.html``

{% extends 'base.html' %}
{% block header %}
<h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
  <label for="title">Title</label>
  <input name="title" id="title" value="{{ request.form['title'] }}" required>
  <label for="body">Body</label>
  <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
  <input type="submit" value="Save">
</form>
{% endblock %}

Update
-----

Both the ``update`` and ``delete`` views will need to fetch a ``post`` by ``id`` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the ``post`` and call it from each view.

.. code-block:: python
   :caption: ``flaskr/blog.py``

def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
        ' WHERE p.id = ?',
        (id,)
    ).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

    if check_author and post['author_id'] != g.user['id']:
abort(403)

return post

:func:`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. ``404`` means "Not Found", and ``403`` means "Forbidden". (``401`` means "Unauthorized", but you redirect to the login page instead of returning that status.)

The `check_author` argument is defined so that the function can be used to get a `post` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

.. code-block:: python

   @bp.route('/<int:id>/update', methods=('GET', 'POST'))
   @login_required
   def update(id):
       post = get_post(id)

       if request.method == 'POST':
           title = request.form['title']
           body = request.form['body']
           error = None

           if not title:
               error = 'Title is required.'

           if error is not None:
               flash(error)
           else:
               db = get_db()
               db.execute(  
                   'UPDATE post SET title = ?, body = ?',  
                   (title, body, id)  
               )
               db.commit()
               return redirect(url_for('blog.index'))
       return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the `update` function takes an argument, ``id``. That corresponds to the ``<int:id>`` in the route. A real URL will look like ``/1/update``. Flask will capture the ``1``,
ensure it's an :class:`int`, and pass it as the ``id`` argument. If you
don't specify ``int:`` and instead do ``<id>``", it will be a string.

To generate a URL to the update page, :func:`url_for` needs to be passed
the ``id`` so it knows what to fill in:
``url_for('blog.update', id=post[id])``. This is also in the
``index.html`` file above.

The ``create`` and ``update`` views look very similar. The main
difference is that the ``update`` view uses a ``post`` object and an
``UPDATE`` query instead of an ``INSERT``. With some clever refactoring,
you could use one view and template for both actions, but for the
tutorial it's clearer to keep them separate.

.. code-block:: html+jinja
  :caption: ``flaskr/templates/blog/update.html``

{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
  <label for="title">Title</label>
  <input name="title" id="title"
    value="{{ request.form['title'] or post['title'] }}" required>
  <label for="body">Body</label>
  <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
  <input type="submit" value="Save">
</form>
<hr>
<form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
  <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
</form>
{% endblock %}

This template has two forms. The first posts the edited data to the
current page (``/<id>/update``). The other form contains only a button
and specifies an `action` attribute that posts to the delete view
instead. The button uses some JavaScript to show a confirmation dialog
before submitting.

The pattern ``{{ request.form['title'] or post['title'] }}`` is used to
choose what data appears in the form. When the form hasn't been
submitted, the original ``post`` data appears, but if invalid form data
was posted you want to display that so the user can fix the error, so
``request.form`` is used instead. :data:`request` is another variable
Delete

The delete view doesn't have its own template, the delete button is part of ``update.html`` and posts to the ``/<id>/delete`` URL. Since there is no template, it will only handle the ``POST`` method and then redirect to the ``index`` view.

```python
@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to :doc:`install`.

Found in path(s):
* /opt/cola/permits/1210655077_1633438616.77/0/flask-2-0-2-tar-gz/Flask-2.0.2/docs/tutorial/blog.rst
No license file was found, but licenses were detected in source scan.

[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://flask.palletsprojects.com/
    Changes = https://flask.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/flask/
    Issue Tracker = https://github.com/pallets/flask/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Framework :: Flask
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Internet :: WWW/HTTP :: WSGI
    Topic :: Internet :: WWW/HTTP :: WSGI :: Application
    Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
    package_dir = = src
    include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
    flask = flask.cli:main

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = True
source =
    flask
    tests

[coverage:paths]
source =
    src
    */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E402
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/flask/__init__.py: F401

[mypy]
files = src/flask
python_version = 3.6
allow_redefinition = True
disable_subclassing_any = True
no_implicit_optional = True
local_partial_types = True
strict_equality = True
warn_redundant_casts = True
warnUnused_configs = True
warnUnused_ignores = True

[mypy-asgiref.*]
ignore_missing_imports = True

[mypy-blinker.*]
ignore_missing_imports = True

[mypy-dotenv.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1210655077_1633438616.77/0/flask-2.0.2-tar-gz/Flask-2.0.2/setup.cfg
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Found in path(s):
* /opt/cola/permits/1210655077_1633438616.77/0/flask-2-0-2-tar-gz/Flask-2.0.2/examples/tutorial/LICENSE.rst
* /opt/cola/permits/1210655077_1633438616.77/0/flask-2-0-2-tar-gz/Flask-2.0.2/LICENSE.rst
* /opt/cola/permits/1210655077_1633438616.77/0/flask-2-0-2-tar-gz/Flask-2.0.2/examples/javascript/LICENSE.rst

1.182 libalgorithm-merge-perl 0.08 3
1.182.1 Available under license:
   Maintainer: James G. Smith <jsmith@cpan.org>
   Source: http://search.cpan.org/dist/Algorithm-Merge/
   Name: Algorithm-Merge

   Files: *
   Copyright: 2003, 2007 Texas A&M University
   License: Artistic or GPL-1+

   Files: debian/*
   Copyright: 2009, Jonathan Yu <frequency@cpan.org>
   2010, Salvatore Bonaccorso <salvatore.bonaccorso@gmail.com>
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1.183 hk2-locator 2.2.0-b21
1.183.1 Available under license :
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1.184 jinja2 2.11.3
1.184.1 Available under license :
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2

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

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
    <ul>
        {% for user in users %}
        <li><a href="{{ user.url }}">{{ user.username }}</a></li>
        {% endfor %}
    </ul>
    {% endblock %}

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

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

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",}
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

Found in path(s):
* /opt/cola/permits/1136466822_1613771252.8/0/jinja2-2-11-3-tar-gz/Jinja2-2.11.3/setup.py
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1.185 libncursesw6 6.2 0ubuntu2

1.185.1 Available under license:

This is the Debian prepackaged version of the ncurses library and terminfo utilities. ncurses/terminfo was originally written by Pavel Curtis and Zeyd M. Ben-Halim <zmbenhal@netcom.com>, and is currently held by the Free Software Foundation.

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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>, Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.186 jinja2 3.0.3
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Metadata-Version: 2.1
Jinja
=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and
cached, or can be compiled ahead-of-time.

- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`_:

.. code-block:: text

   $ pip install -U Jinja2


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

.. code-block:: jinja

   {% extends "base.html" %}
   {% block title %}Members{% endblock %}
   {% block content %}
   <ul>
   {% for user in users %}
   <li><a href="{{ user.url }}">{{ user.username }}</a></li>
   {% endfor %}
   </ul>
   {% endblock %}

Donate
------

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate
Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/change
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1226387220_1636997006.25/0/jinja2-3.0.3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1226387220_1636997006.25/0/jinja2-3.0.3-tar-gz/Jinja2-3.0.3/PKG-INFO

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

[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
  package_dir = src
  include_package_data = true
  python_requires = >= 3.6

[options.packages.find]
  where = src

[options.entry_points]
babel.extractors =
  jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings = error
ignore:The loop argument:DeprecationWarning:asyncio[.base_events:542

[coverage:run]
branch = True
source = jinja2
tests

[coverage:paths]
source = src */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore = E203 E501 E722 W503
max-line-length = 80
per-file-ignores = src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1226387220_1636997006.25/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg

1.187 libaudit-common 1:2.8.5 2ubuntu6
1.187.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: auditd
Source: https://people.redhat.com/sgrubb/audit/

Files: *
Copyright: 2012-2016 Steve Grubb <sgrubb@redhat.com>
   2006-2012 Rik Faith
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Files: src/libev/*
Copyright: 2007-2009 Marc Alexander Lehmann
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1.188 glibc 2.31-0ubuntu9.2

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1.192 libbz 1.0.8 2
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1.194 cglib 2.2

1.195 distlib 0.3.0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.198 kubernetes-api 0.22.1

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1.204 cpio 2.13+dfsg-2ubuntu0.3

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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>
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1.217 pyparsing 2.4.7

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1.218 resourcelocator 1.0.1

1.219 hashicorp-mdns 1.0.4

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1.220 mime-support 3.64ubuntu1

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1.223 pinentry 1.1.0-3build1

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

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1.244 libpkit 0.23.20 1ubuntu0.1

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1.245 go-cty 1.7.1

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1.246 libmagic 1:5.38 4
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1.248 jersey-media-multipart 2.5.1
1.249 zlib 1.2.11.dfsg-2ubuntu1

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   version 1.2.11, January 15th, 2017

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1.250 gopkg.in-inf 0.9.1

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1.252 newt 0.52.21-4ubuntu2

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

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

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

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

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Julian Seward, jseward@bzip.org
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jar/io/sundr/codegen/model/ParameterReference.java
* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen/converters/TypeRefTypeVisitor.java
* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen/functions/ElementTo.java
* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen/model/SourceBuilder.java
* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen/converters/parser/DeclarationToJavaClazz.java
* /opt/cola/permissions/1108972000_1606233065.44/0/sundr-codegen/model/Kind.java

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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources.jar/io/sundr/codegen/directives/FieldDirective.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources.jar/io/sundr/codegen/directives/SingularizeDirective.java
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources.jar/io/sundr/codegen/model/AttributeSupport.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources.jar/io/sundr/codegen/utils/TypeUtils.java
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources.jar/io/sundr/codegen/directives/PluralizeDirective.java

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1.272 contextlib2 21.6.0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1112466733_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/LocalVariablesSorter.java

1.281 pyparsing 3.0.6

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1.282 j2objc-annotations 1.3
1.283 progress 1.5
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1.284 ipcalc 0.41 5
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1.288 libexpat1-dev 2.2.9-1build1

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jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
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* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
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arj/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
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* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/support/ClassFilters.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
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* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/spring-aop-4-3-29-release-sources-jar/org/aopalliance/intercept/Invocation.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/spring-aop-4-3-29-release-sources-jar/org/aopalliance/intercept/MethodInvocation.java
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* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/spring-aop-4-3-29-release-sources-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAutoProxyCreator.java
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    jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
  * /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
    jar/org/springframework/aop/framework/ComposablePointcut.java
  * /opt/ws_local/PERMITS_SQL/1093519611_1600946735.24/0/spring-aop-4-3-29-release-sources-
    jar/org/springframework/aop/framework/AnnotationMatchingPointcut.java

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

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

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

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

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

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

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1.295 pep517 0.12.0

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tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
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examples/senddata.c
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tests/authentication.c
tests/benchmarks/bench1.sh
tests/benchmarks/bench2.sh
tests/chmodtest.c
tests/client/torture_proxycommand.c
tests/client/torture_sftp_dir.c
tests/client/torture_sftp_read.c
tests/cmdline.c
tests/connection.c
tests/generate.py
tests/sftp_stress/main.c
tests/test_exec.c
tests/test_ssh_bind_accept_fd.c
tests/test_tunnel.c
tests/tests.h
tests/unittests/torture_buffer.c
tests/unittests/torture_callbacks.c
tests/unittests/torture_channel.c
tests/unittests/torture_init.c
tests/unittests/torture_isipaddr.c
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       examples/proxy.c
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src/channels.c
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   src/known_hosts.c
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cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Linking with OpenSSL

17. In addition, as a special exception, we give permission to link the code of its release of libssh with the OpenSSL project's "OpenSSL" library (or with modified versions of it that use the same license as the "OpenSSL" library), and distribute the linked executables. You must obey the GNU Lesser General Public License in all respects for all of the code used other than "OpenSSL". If you modify this file, you may extend this exception to your version of the file, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

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1.301 gstreamer 1.16.2-2
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

This license, the Library General Public License, applies to some
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

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this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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It may happen that this requirement contradicts the license
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7. You may place library facilities that are a work based on the
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1.302 libncurses 6.2 0ubuntu2

1.302.1 Available under license:

This is the Debian prepackaged version of the ncurses library and terminfo utilities. ncurses/terminfo was originally written by Pavel Curtis and Zeyd M. Ben-Halim <zmbenhal@netcom.com>, and is currently held by the Free Software Foundation.

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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>, Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.311 swagger-annotations 1.6.2

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1088518024_1599800722.99/0/swagger-annotations-1-6-2-jar/META-INF/MANIFEST.MF

1.312 libext2fs2 1.45.5 2ubuntu1

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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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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <ttyso@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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
*/
- Unix SMB/CIFs implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the Common Error
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Gadi Oxman, August 1995

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1.317 jsqlparser 2.1

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* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TJSONProtocol.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/THeaderTransport.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/Thrift.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/TProcessPoolServer.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/TNonblockingServer.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/THttpClient.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TTornado.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TTransport.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TZlibTransport.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TBase.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TCompactProtocol.py
Open Source Used In DNAC System Engineering release/octomore-intg 3668

* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TProtocolDecorator.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/_init_.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/HTTPServer.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TMultiplexedProcessor.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TSocket.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/setup.py

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

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The Python libraries can be installed manually using the provided setup.py
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Metadata-Version: 2.1
Name: thrift
Version: 0.15.0
Summary: Python bindings for the Apache Thrift RPC system
Home-page: http://thrift.apache.org
Author: Apache Thrift Developers
Author-email: dev@thrift.apache.org
License: Apache License 2.0
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: System :: Networking
Description-Content-Type: text/markdown
Provides-Extra: ssl
Provides-Extra: tornado
Provides-Extra: twisted
Provides-Extra: all

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The Python libraries can be installed manually using the provided setup.py file, or automatically using the install hook provided via autoconf/automake. To use the latter, become superuser and do make install.

Found in path(s):
  * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/thrift.egg-info/PKG-INFO
  * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/PKG-INFO

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* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/compact.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/types.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/types.cpp
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/module.cpp
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/protocol.tcc
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/protocol.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/endian.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/binary.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15.0.tar.gz/thrift-0.15.0/src/ext/binary.cpp

1.323 dirmngr 2.2.19 3ubuntu2.1
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.
------------------------------------------------------------------------
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1.324 mongodb-driver 3.12.4

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1.326 converter-moshi 2.9.0

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplore() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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## 1.341 aiohttp-route-decorator 0.1.4

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```
Metadata-Version: 1.0
Name: aiohttp_route_decorator
Version: 0.1.4
Summary: aiohttp @route decorator that doesn't need the app singleton
Home-page: https://github.com/IlyaSemenov/aiohttp_route_decorator
Author: Ilya Semenov
Author-email: ilya@semenov.co
License: BSD
Description: aiohttp_route_decorator

The library provides `@route` decorator for `aiohttp.web`_, resembling the contract of Flask_ `@app.route`.

.. _Flask: http://flask.pocoo.org/docs/0.11/quickstart/#routing
```
The imaginary `aiohttp` `@app.route` decorator is discouraged for multiple reasons; this one tries to solve part of those problems (the `app` doesn't need to be global at the very least).

.. _multiple: https://github.com/KeepSafe/aiohttp/issues/428
.. _reasons: https://github.com/KeepSafe/aiohttp/pull/195

Installation
============

```
pip install aiohttp_route_decorator
```

Usage
=====  

Create a `route` object in each of your handler modules, and decorate the handlers:

.. code:: python

```python
# myapp/handlers.py
from aiohttp_route_decorator import RouteCollector

route = RouteCollector()

@route('/')
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

@route('/login', methods=['GET', 'POST'], name='login')
async def login(request):
    if request.method == 'POST':
        return web.Response(body=b'OK')
    return web.Response(body=b'Login')
```

When you init the application, push the collected `routes` into `app.router`

.. code:: python
from aiohttp import web
from myapp import handlers

def run():
    app = web.Application()
    handlers.route.add_to_router(app.router)
    web.run_app(app)

Non-decorator use
------------------

If you prefer to keep your routes together, you can construct the list manually after your handlers:

.. code:: python

    from aiohttp_route_decorator import RouteCollector, Route

    async def index(request):
        return web.Response(body=b'OK')

    async def publish(request):
        return web.Response(body=b'OK')

    async def login(request):
        if request.method == 'POST':
            return web.Response(body=b'OK')
        return web.Response(body=b'Login')

    routes = RouteCollector([
        Route('/', index),
        Route('/publish', publish, method='POST'),
        Route('/login', login, methods=['GET', 'POST'], name='login'),
    ])

Prefixed routes
---------------

You can provide common route prefix that will be prepended to all routes:

.. code:: python

    from aiohttp_route_decorator import RouteCollector

    routes = RouteCollector(prefix='/app')
@route('/')
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

...

handlers.route.add_to_router(app.router)
# /app/ -> index
# /app/publish -> publish

You can also provide the prefix within ``add_to_router()`` call instead:

.. code:: python

    from aiohttp_route_decorator import RouteCollector

    routes = RouteCollector()

    @route('/')
    async def index(request):
        return web.Response(body=b'OK')

    @route('/publish', method='POST')
    async def publish(request):
        return web.Response(body=b'OK')

...

    handlers.route.add_to_router(app.router, prefix='app')
    # /app/ -> index
    # /app/publish -> publish

...or use both:

.. code:: python

    from aiohttp_route_decorator import RouteCollector

    routes = RouteCollector(prefix='app')

    @route('/')
    async def index(request):
return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

...

handlers.route.add_to_router(app.router, prefix='/' + 'project')
# /project/app/ -> index
# /project/app/publish -> publish

The non-decorator version of ``RouteCollector`` can also accept prefix:

```
.. code:: python

from aiohttp_route_decorator import RouteCollector, Route

async def index(request):
    return web.Response(body=b'OK')

async def publish(request):
    return web.Response(body=b'OK')

routes = RouteCollector(prefix='/app', routes=[
    Route('/', index),
    Route('/publish', publish, method='POST'),
])
```

Parameters reference
----------------------
``route(path, *, method='GET', methods=None, name=None, **kwargs)``

- **path** (*str*) route path. Should be started with slash (``'/'``).
- **method** (*str*) HTTP method for route. Should be one of ``'GET'``, ``'POST'``, ``'PUT'``, ``'DELETE'``, ``'PATCH'``, ``'HEAD'``, ``'OPTIONS'`` or ``'*'`` for any method.
- **methods** (*List[str]*) optional shortcut for creating several routes with different HTTP methods at once.

If used, should be a list of acceptable values for ``method`` argument.
- **name** (*str*) optional route name.
- **kwargs** other parameters to be passed to ``aiohttp.web.Resource.add_route()``.

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1093468227_1603148145.95/0/aiohttp-route-decorator-0-1-4-tar-gz/aiohttp_route_decorator-
The library provides `@route` decorator for `aiohttp.web`, resembling the contract of Flask `@app.route`.

.. _Flask: http://flask.pocoo.org/docs/0.11/quickstart/#routing

The imaginary `aiohttp` `@app.route` decorator is discouraged for multiple reasons; this one tries to solve part of those problems (the `app` doesn't need to be global at the very least).

.. _multiple: https://github.com/KeepSafe/aiohttp/issues/428
.. _reasons: https://github.com/KeepSafe/aiohttp/pull/195

Installation
============

```
pip install aiohttp_route_decorator
```

Usage
=====  

Create a `route` object in each of your handler modules, and decorate the handlers:

.. code:: python

```python
# myapp/handlers.py
from aiohttp_route_decorator import RouteCollector

route = RouteCollector()
```
@route('/
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

@route('/login', methods=['GET', 'POST'], name='login')
async def login(request):
    if request.method == 'POST':
        return web.Response(body=b'OK')
    return web.Response(body=b'Login')

When you init the application, push the collected `routes` into `app.router`:

.. code:: python

    from aiohttp import web
    from myapp import handlers

def run():
    app = web.Application()
    handlers.route.add_to_router(app.router)
    web.run_app(app)

Non-decorator use
------------------

If you prefer to keep your routes together, you can construct the list manually after your handlers:

.. code:: python

    from aiohttp_route_decorator import RouteCollector, Route

    async def index(request):
        return web.Response(body=b'OK')

    async def publish(request):
        return web.Response(body=b'OK')

    async def login(request):
        if request.method == 'POST':
            return web.Response(body=b'OK')
        return web.Response(body=b'Login')
routes = RouteCollector(
Route('/', index),
Route('/publish', publish, method='POST'),
Route('/login', login, methods=['GET', 'POST'], name='login'),
})

Prefixed routes
--------------

You can provide common route prefix that will be prepended to all routes:

.. code:: python

from aiohttp_route_decorator import RouteCollector

routes = RouteCollector(prefix='/app')

@route('/')
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

...

handlers.route.add_to_router(app.router)
# /app/ -> index
# /app/publish -> publish

You can also provide the prefix within `add_to_router()` call instead:

.. code:: python

from aiohttp_route_decorator import RouteCollector

routes = RouteCollector()

@route('/')
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')
... 

```
handlers.route.add_to_router(app.router, prefix='/app')
# /app/ -> index
# /app/publish -> publish
```

...or use both:

```
.. code:: python

from aiohttp_route_decorator import RouteCollector

routes = RouteCollector(prefix='/app')

@route('/')
async def index(request):
    return web.Response(body=b'OK')

@route('/publish', method='POST')
async def publish(request):
    return web.Response(body=b'OK')

...
```

```
handlers.route.add_to_router(app.router, prefix='/project')
# /project/app/ -> index
# /project/app/publish -> publish
```

The non-decorator version of `RouteCollector` can also accept prefix:

```
.. code:: python

from aiohttp_route_decorator import RouteCollector, Route

async def index(request):
    return web.Response(body=b'OK')

async def publish(request):
    return web.Response(body=b'OK')

routes = RouteCollector(prefix='/app', routes=[
    Route('/', index),
    Route('/publish', publish, method='POST'),
])
```
``route(path, *, method='GET', methods=None, name=None, **kwargs)`

- **path** (*str*) route path. Should be started with slash (``'/'``).
- **method** (*str*) HTTP method for route. Should be one of ``'GET'``, ``'POST'``, ``'PUT'``, ``'DELETE'``, ``'PATCH'``, ``'HEAD'``, ``'OPTIONS'`` or ``'*'`` for any method.
- **methods** (*List[str]*) optional shortcut for creating several routes with different HTTP methods at once. If used, should be a list of acceptable values for ``'method'`` argument.
- **name** (*str*) optional route name.
- **kwargs** other parameters to be passed to ``aiohttp.web.Resource.add_route()``.

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1093468227_1603148145.95/0/aiohttp-route-decorator-0-1-4-tar-gz/aiohttp_route_decorator-0.1.4/aiohttp_route_decorator.egg-info/PKG-INFO

### 1.342 masterminds-semver 3.1.1

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1.344 libfastjson 0.99.8 2

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 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/CodeFlow.java
 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/BeanResolver.java
 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java
 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
 * /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java

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* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/standard/SpelExpression.java
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* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/InternalParseException.java
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* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-jar/org/springframework/expression/spel/InternalParseException.java
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/...
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/TypedValue.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/OpLE.java

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* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/ws_local/PERMITS_SQL/1093519604_1600946681.01/0/spring-expression-4-3-29-release-sources-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
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1.349 xkeyboard-config 2.29-2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c

--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -97,6 +97,65 @@
 
+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+        }
+    }
+ finished:
    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
    goto finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
     goto finished;

    if (stat(flag, &s) != 0)
    {
        int fd = open("/etc/legal", O_RDONLY, 0);
        if (fd >= 0) {
            try_to_display_fd(pamh, fd);
            close(fd);
        }
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }

finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
    pam_syslog(pamh, LOG_ERR,
                "Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
    return retval;
}

int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
{
    int fd = open("/etc/legal", O_RDONLY, 0);
    if (fd >= 0) {
        try_to_display_fd(pamh, fd);
        close(fd);
    }
    mkdir(dir, 0700);
    f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
             S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
    if (f>=0) close(f);
}

+finished:
    if (pam_modutil_regain_priv(pamh, &privaux)) {
    pam_syslog(pamh, LOG_ERR,
                "Unable to change UID back to %d\n", privaux.old_uid);
    retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
    return retval;
}

int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
{
    @ @ -170,6 +229,9 @ @
    if (motd_dir_path != NULL)
        try_to_display_directory(pamh, motd_dir_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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* /opt/ws_local/PERMITS_SQL/1080693164_1597675478.73/0/jose4j/jwk/OctJwkGenerator.java
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1.362 error_prone_annotations 2.3.4

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1.363 docker-distribution 2.7.1+incompatible

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Gocheck - A rich testing framework for Go

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1.370 minio 4.0.0

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

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Blttermann, Mario
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1.373 swagger-models 2.0.10

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting

from The Open Group.
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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

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import (  
"github.com/gophercloud/gophercloud"  
"github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct { }

type commonResult struct {  
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method  
// to interpret it as a RESOURCE.  
type GetResult struct {  
commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method  
// to interpret it as a RESOURCE.  
type CreateResult struct {  
commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to  
// determine if the request succeeded or failed.  
type DeleteResult struct {  
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to  
// interpret it as a RESOURCE.  
type UpdateResult struct {  
commonResult
}

// ResourcePage is a single page of RESOURCE results.  
type ResourcePage struct {  
pagination.LinkedPageBase
}
// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
    Links struct {
        Next string `json:"next"`
        Previous string `json:"previous"`
    } `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
    Resources []Resource `json:"resources"`
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
    Resource *Resource `json:"resource"`
}
err := r.ExtractInto(&s)
return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See
Open Source Used In DNAC System Engineering release/octomore-intg  4185

[#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

### What to Include in a Pull Request

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

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please
generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

-----

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).
Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   - Unit Tests
   - Code Formatting checks
   - `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).
Request a Code Review
--------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-----------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (
// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`;

// GetResult provides a Get result.
const GetResult = `{
}
`;

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`;

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{};

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};
// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, DeleteRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return nil
        }
       -Saharan

 yAxisLabel: 'Y Axis Label' } } } )

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return nil
        }
       -Saharan
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

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

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

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

package testing
import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        return true, nil
    })
actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)

th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    actual, err := resources.Delete(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, nil, *actual)
}
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
Description: "Staging Resource",
}

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

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------

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END OF TERMS AND CONDITIONS

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!
We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You’ve made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==================================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don’t have an OpenStack environment to test with, we have lots of documentation [here](http://www.acceptance) to help you build your own small OpenStack environment for testing.

---

Once you’ve confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

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

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue
==================================

Every patch / Pull Request requires a corresponding issue. If you’re fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
---------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

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

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

The following issues are examples of missing fields:

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

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

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

### Adding a Missing API Call

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

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

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

### Adding a Missing API Suite

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

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

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

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

### Adding a Missing OpenStack Project

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

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

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

---

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

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:


In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
}
```

---

Open Source Used In DNAC System Engineering release/octomore-intg 4204
to look like

```go
type Network struct {
    ID                    string `json:"id"`
    Name                  string `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string `json:"tenant_id"`
    Shared                bool     `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```  

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find...
and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

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OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

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Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

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There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](./github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

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When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

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lib/erl/src/Makefile.am

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For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/util/CopyOnWriteMap.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ClassModel.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/Transformer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonJavaScriptWithScope.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ObjectIdCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BsonOutput.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/Decimal128Codec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BigDecimalCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonTypeClassMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BsonOutput.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/SLF4JLogger.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ExtendedJsonArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ExtendedJsonRegularExpressionConverter.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ExtendedJsonDateConverter.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ExtendedJsonInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ExtendedJsonIEEE754Converter.java

jar/org/bson/codecs/NumberCodecHelper.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonDoubleConverter.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonValue.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonObjectId.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/Codec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConvetionObjectIdGeneratorsImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonCodecProvider.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerator.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConvetionObjectIdGeneratorsImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonCodecProvider.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalTimeCodec.java

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1.385 ncursesbin 6.2 0ubuntu2

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Changes:
* added Debian package maintenance system files
* changed Makefile.in's to compile with -D_REENTRANT
* changed configure.in to support proper compilation of debugging libraries
* Fixed tget{flag,num,str} in lib_termcap ("long" strings work now)

Changes to terminfo.src:
* Removed ich(1) from linux, screen, vt320

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1.386 jackson-datatype-jsr310 2.9.10

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1.388 urfave-cli 1.22.1

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1.389 libsasl 2.1.27+dfsg 2

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto
rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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1.413 pigz 2.4 1
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1.414 x-time-rate 0.0.0-20210723032227-1f47c861a9ac

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1.415 certifi 2021.10.8

1.415.1 Available under license:

This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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1.416 p11-kit 0.23.20-1ubuntu0.1
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1.417 vault 0.1.14-0.20200519221838-e0cf64bc267

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### Enterprise Licenses

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

---

layout: docs
page_title: Vault Enterprise License
description: An overview of license.
---

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

```release-note:changes
core: License/EULA changes that ensure the presence of a valid HashiCorp license to start Vault. More information is available in the [Vault License FAQ](https://www.vaultproject.io/docs/enterprise/license/faqs)
```

{{#if this.licenseExpired}}

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

{{/if}}

{{#if (lte this.licenseExpiringInDays 30)}}

<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
<AlertBanner
  @type="warning"
  @title="Vault license expiring"
>
  <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopener">Read documentation</a>
</AlertBanner>

{{/if}}
# `/sys/license`

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

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

## Read License

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

This endpoint returns information about the currently installed license.

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

### Sample Request

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

### Sample Response

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

## Read Signed License

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

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

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

### Sample Request

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

### Sample Response

```
{
 "data": {
   "signed": "01ABCDEFG..."
 }
}
```

## Install License

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

This endpoint is used to install a license into Vault. This will return an error if license autoloading is in use.
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

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

_DR Secondary Specific Parameters_

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request. Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

### Sample Payload

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

### Sample Request

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

## Delete License

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

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

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

### Sample Request

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

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

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

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

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

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

### Sample Request

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

### Sample Response

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

package license
// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

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

<LicenseInfo
    @startTime={{model.startTime}}
    @expirationTime={{model.expirationTime}}
    @licenseId={{model.licenseId}}
    @features={{model.features}}
    @autoloaded={{model.autoloaded}}
    @performanceStandbyCount={{model.performanceStandbyCount}}
/>

```
```
---
layout: docs
page_title: license inspect - Command
description: |
The "license inspect" command describes the contents of a signed license string.
---

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```
```
```
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```
```

Describe license at given path:

```
```

License is valid
```
```

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

### Command Options

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

---

**## Usage**

This FAQ section is for the license changes introduced in Vault Enterprise 1.8. We will no longer support the old license system (`vault write sys/license`), and autoload will be the only way to manage your license.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released)
for-vault)
- [Q: Will these license changes impact HCP Vault?](#will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#what-is-the-impact-on-evaluation/licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#is-there-a-grace-period-when-evaluation/licenses-expire)
- [Q: Does this affect clients?](#does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there a limited time for support of licenses that are in storage?](#is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: When will these licensing changes be released for Vault?

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

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

No, these changes will not impact HCP Vault.

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

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
</table>

---

Open Source Used In DNAC System Engineering release/octomore-intg 4447
### Q: What is the product behavior change introduced by the licensing changes?

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

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

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

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

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

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

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

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

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

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release. Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

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

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

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.
### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

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

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement). Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.

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---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.
---

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/docs/system/license#install-license).

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

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)
* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)

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

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/docs/system/license#delete-license) to remove the stored license.
---
layout: docs
The `license get` command reports on the license in use. With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

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

Get stored license string:

```
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

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

## Usage

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

### Command Options
License

Details

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

Details

- `License ID` @value={{@licenseId}}
- `Valid from` to `Expiration date`:
  - `Auto loaded`:
    - Tank: `Alert triangle`
    - `Stored`:
      - Tank: `Alert triangle`

Features

- `Active` {{#if info.active}}
  - Icon: `Check circle`
  - Standby: `info.count` standby nodes allotted
- `Not Active` {{else}}

Stored licenses will be deprecated in a future version of Vault. We recommend autoloading your license. Read more [here](https://www.vaultproject.io/docs/enterprise/license)
# license

The `license` command groups subcommands for interacting with Vault licenses.

For more information, please see the [license documentation](/docs/enterprise/license)

## Examples

Query current license in use by a node:

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

Query signed license string (only when using a deprecated stored license)

```
```shell-session
$ vault license get -signed
02MV4U43BK5H...
```

Inspect a signed a license string:
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid
```
## Usage
```text
Usage: vault license <subcommand> [options] [args]
# ...
Subcommands:
get
Query Vault's license
inspect View the contents of a license string
```
For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.

1.418 opencontainers-image-spec 1.0.1
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1.422 pytz 2021.3

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1.423 jsonschema 2.5.1

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1.424 cdebconf 0.251ubuntu1

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1.425 installation-report 2.62ubuntu1

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1.426 dialog 1.3-20190808-1

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

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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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--------------------------------------------------
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.433 jcip-annotation 1.0

1.434 click 6.6

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1.436 columnize 2.1.0+incompatible

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1.437 docker-ce 0.12.0~ubuntu-focal

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

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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/ConstraintTarget.java
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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/constraints/package-info.java
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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/Validator.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/ReportAsSingleViolation.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/ConstraintValidatorContext.java
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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-jar/javax/validation/ConstraintValidatorContext.java
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  jar/javax/validation/ParameterNameProvider.java
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  jar/javax/validation/metadata/ConstructorDescriptor.java

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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
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  jar/javax/validation/Payload.java
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  jar/javax/validation/constraints/AssertFalse.java
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The End

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1.444 util-linux 2.34-0.1ubuntu9
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/RSADecrypter.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/ThumbprintUtils.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEObjectType.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/OctetKeyPairGenerator.java

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* nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java

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* nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEEncryptionKeySelector.java
* nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEEncryptionKeySelector.java

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 * /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Base64Codec.java

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1.454 cert-validator 1.5.5

1.454.1 Available under license:

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

Metadata-Version: 2.0
Name: cert-validator
Version: 1.5.5
Summary: Certificate Validation Service (1.5.5)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: asn1crypto
Requires-Dist: certvalidator
Requires-Dist: oscrypto
Requires-Dist: pyOpenSSL

# Installation
+ Works with: python 2 and 3 both
+ This is python certificate validator
+ Usage:
    from cert_validator import CertValidator

    cert_val_obj = CertValidator(<hostname>, <host_port>, revocation_mode,
                               logger_handle, proxies=<dict>)
if cert_val_obj.connect():
    if cert_val_obj.validate():
        print("validation succesfull")
    else:
        print("validation failed !!")
else:
    print("cannot connect to host")

+ Default values: host_port : 443 Integer
    revocation_mode: "require" str # certificate must have crl or ocsp in it
    - available values: "soft-fail", "hard-fail", "require"

logger_handle = <None> logger_object
proxies = <None>, pass dictionary of proxies as
    {
        "https" : <https_proxy_url",
        "http" : <http_proxy_url"
    }

+ Exception handelling: socket error for connection

Found in path(s):
* /opt/cola/permits/1124962236_1611254838.76/0/cert-validator-1-5-5-dist-info-
zip/licenseservice_extracted/cert_validator-1.5.5-py3-none-any.whl_extracted/cert_validator-1.5.5.dist-
info/METADATA

1.455 pep517 0.8.2

1.455.1 Available under license :

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1.456 hashicorp-go-cty-funcs 0.0.0-20200930094925-2721b1e36840

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1.457 libpython3-dev 3.8.2-0ubuntu2

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

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

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.458 jetty-servlets 9.3.27.v20190418

1.459 linode-linodego 0.7.1

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1.460 apt 2.0.6

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1.462 json-c 0.99.8-2

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1.463 go-jose 2.6.0

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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)\n $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)\n @-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..../$(BSD_LIB)

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

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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Gadi Oxman, August 1995

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1.467 circonusllhist 0.1.3

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1.469 reportlab 3.5.59

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4. Can I change or add to the font(s)?
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5. Under what terms are derivative works allowed?

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   opening). You must include the Bitstream copyright. Additional
   copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
   adopted in future versions?
Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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1.471 libpcap 1.9.1 3
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* /opt/cola/permits/1212846576_1633975316.69/0/consul-0-8-0-gem/data-tar-gz/spec/rails-3.0/app_root/config/initializers/session_store.rb

1.473 unattended-upgrades 0.1

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1.474 man-pages 5.05-1
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#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't followed by ")".
#
# This script is designed to help with "by hand" tidy-ups after the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where 'man2' and 'man3' subdirectories can be found. The pages names in these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#    cd man-pages-x.yy
#    sh find_dots_no_parens.sh . man?/*.? > matches.log
#
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.484 python-requests 2.25.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c

--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -97,6 +97,65 @@
        }
    }

+int display_legal(pam_handle_t *pamh)
+{  
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to \d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                
+                if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+                    goto finished;
+                if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                    goto finished;
+                if (stat(flag, &s) != 0)
+                    


int fd = open("/etc/legal", O_RDONLY, 0);
if (fd >= 0) {
    try_to_display_fd(pamh, fd);
    close(fd);
}
mkdir(dir, 0700);
f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
       S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
if (f>=0) close(f);
}

if (pam_modutil_regain_priv(pamh, &privs)) {
    pam_syslog(pamh, LOG_ERR,
               "Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
}

_pam_drop(flag);
_pam_drop(dir);
}

int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
{
    if (motd_dir_path != NULL)
try_to_display_directory(pamh, motd_dir_path);

    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);

    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.488 nose 1.3.7

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.495 go-autorest-logging 0.1.0

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1.496 maglev-appctl 1.6.20
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Metadata-Version: 2.0
Name: maglev-appctl
Version: 1.6.20
Summary: Maglev Python Application Controller (1.6.20)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: Jinja2 (>=2.11.3)
Requires-Dist: MarkupSafe (==1.1.1)
Requires-Dist: click (==6.6)
Requires-Dist: click-completion (==0.2.1)
Requires-Dist: hprof2flamegraph (==0.0.6)
Requires-Dist: psutil (==4.3.0)
Requires-Dist: pyJwt (==1.4.0)
Requires-Dist: requests (==2.20.1)
Requires-Dist: toml (==0.9.2)

# Installation
+ Requires: Python 3.5 download the dmg and install, use pyvenv to create a virtual environment

# How to test and develop in local mac
- Use pyvenv to create a virtual env in /opt/maglev
- u can either call the activate script to activate the virtualenv

Found in path(s):
* /opt/cola/permits/1174732560_1624543742.04/0/maglev-appctl-1-6-20-dist-info-
  zip/inputdir/packages_extracted/tar/1/packages_extracted/2/packages_extracted/usr/local/lib/python3.5/dist-
  packages/maglev_appctl-1.6.20.dist-info/METADATA

1.497 libxext 1.3.4-0ubuntu1
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1.499 hcl 1.0.0

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1.501 pynacl 1.3.0

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1.502 go-autorest-auth 0.4.2

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Version: 0.4.4
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Classifier: Programming Language :: Python :: 3.5
Provides: py_zipkin
Requires-Dist: six
Requires-Dist: thriftpy

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* /opt/cola/permits/1112217760_1607594653.26/0/py-zipkin-0.4.4.dist-info-
zip/inputdir/packages_extracted/39/py_zipkin-0.4.4.dist-info/METADATA

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  jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/cache/support/NoOpCache.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
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  jar/org/springframework/context/annotation/PropertySource.java
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  jar/org/springframework/context/annotation/ContextAnnotationAutowiredCandidateResolver.java
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  jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
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  jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
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  jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/context/annotation/Configuration.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/cache/support/NoOpCacheManager.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
  jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/remoting/RemoteAccessException.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/jmx/export/metadata/AbstractConfigurableMBeanInfoAssembler.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/annotation/BeanFactoryResolver.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/annotation/CacheAnnotationParser.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/expression/ConfigurationClassUtils.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
jar/org/springframework/validation/validation/MethodValidationInterceptor.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
jar/org/springframework/validation/validation/BindingResult.java
 jar/org/springframework/cache/interceptor/SimpleKey.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
jar/org/springframework/validation/DefaultBindingErrorProcessor.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *  <p>Does not provide a way to transmit checked exceptions but
 *  provide a special exception that should be used to wrap any
 *  exception that was thrown by the underlying invocation.
 *  Callers are expected to handle this issue type specifically.
 *  @author Stephane Nicoll
 *  @since 4.1
 */

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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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  org/springframework/context/annotation/BeanMethod.java
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  org/springframework/context/support/ResourceBundleMessageSource.java
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  org/springframework/context/ResourceLoaderAware.java
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
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/opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/jmx/export/annotation/AnnotatedMBeanInfoSourceAdapter.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources.jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources.jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/validation/annotation/Validated.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/validation/ValidationUtils.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 */
A <em>condition</em> is any state that can be determined programmatically
before the bean definition is due to be registered (see {@link Condition} for details).

The [@code @Conditional] annotation may be used in any of the following ways:

- as a type-level annotation on any class directly or indirectly annotated with
  [@code @Component], including [@link Configuration @Configuration] classes
- as a meta-annotation, for the purpose of composing custom stereotype
  annotations
- as a method-level annotation on any [@link Bean @Bean] method

If a [@code @Configuration] class is marked with [@code @Conditional],
all of the [@code @Bean] methods, [@link Import @Import] annotations, and
[@link ComponentScan @ComponentScan] annotations associated with that
class will be subject to the conditions.

NOTE: Inheritance of [@code @Conditional] annotations
is not supported; any conditions from superclasses or from overridden
methods will not be considered. In order to enforce these semantics,
[@code @Conditional] itself is not declared as
[@link java.lang.annotation.Inherited @Inherited]; furthermore, any
custom <em>composed annotation</em> that is meta-annotated with
[@code @Conditional] must not be declared as [@code @Inherited].

@since 4.0
@see Condition
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
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* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/ws_local/PERMITS_SQL/1093519573_1600946736.6/0/spring-context-4-3-29-release-sources-jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
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1.506 javaparser-core 2.5.1

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/classifiers.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixtures/fixed_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixtures/fixed_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_print.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixtures/fixed_repr.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixtures/fixed_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_has_key.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_repr.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixtures/fixed_long.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixtures/fixed_exec.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_print.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fixed_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'"
)'License: ' + self.distribution.get_license(),

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
  extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
  extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
  extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
  extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
  extensions-3.8.2/3.8/Lib/lib2to3/fixtures/fix_ne.py
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (\| Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
     | NAME [Details] [Repeater]
     | '(' Alternatives ')' [Repeater]
     | '[' Alternatives ']' )


NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c

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# version.

Found in path(s):
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py

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extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py

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Executable.

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/distutils/spawn.py

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file.write('License: %s
' % self.get_license())

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/distutils/dist.py

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extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.508 otel-exporters-otlp-otlptrace 1.0.0-RC1

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--------------------------------------------------
For lib/py/compat/win32/stdint.h

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.511 xpp 1.1.4c

1.512 glib 2.64.6-1~ubuntu20.04.4

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1.513 libksba8 1.3.5 2
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@end heading

@end enumerate

@end heading

@end heading

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.516 multidict 5.2.0

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1.517 jackson-core 2.10.5

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* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
  jar/org/springframework/web/bind/support/SessionStatus.java
  /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
  jar/org/springframework/web/bind/support/WebBindingInitializer.java
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jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java

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jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/server/ServerHttpServletRequest.java

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* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianServiceExporter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapExporter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapExporter.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/ServerHttpResponse.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/ServerHttpResponse.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
1.519 six 1.14.0-2

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1.520 go-jose 2.5.1

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 **
 ** uuid_mac.h: Media Access Control (MAC) resolver API definition
 */

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uuid.c: library API implementation

uuid_sha1.h: SHA-1 API definition
*/

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**
** ui128.h: API declaration
*/

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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--
--
-- prolog
--
--
SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING) CASCADE;
DROP FUNCTION uuid_out(uuid) CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid) CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid) CASCADE;
DROP CAST (uuid AS CSTRING) CASCADE;
DROP FUNCTION uuid(CSTRING) CASCADE;
DROP FUNCTION uuid(INTEGER) CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;
DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <> (uuid,uuid) CASCADE;
DROP OPERATOR < (uuid,uuid) CASCADE;
DROP OPERATOR > (uuid, uuid) CASCADE;
DROP OPERATOR <= (uuid, uuid) CASCADE;
DROP OPERATOR >= (uuid, uuid) CASCADE;

DROP FUNCTION uuid_hash (uuid) CASCADE;
DROP FUNCTION uuid_cmp (uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;

BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION uuid_in (CSTRING) RETURNS uuid
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION uuid_out (uuid) RETURNS CSTRING
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION uuid_recv (INTERNAL) RETURNS uuid
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION uuid_send (uuid) RETURNS BYTEA
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (  
  INPUT = uuid_in, -- for SQL input
  OUTPUT = uuid_out, -- for SQL output
  RECEIVE = uuid_recv, -- for DB input
  SEND = uuid_send, -- for DB output
  DEFAULT = 'uuid(1)',
  INTERNALLENGTH = 16,
  ALIGNMENT = char
);  

COMMENT ON TYPE uuid
IS 'UUID type';
-- CREATE CAST (CSTRING AS uuid)
-- WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
-- WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;
--
-- the UUID constructor function
--

CREATE FUNCTION
  uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
  uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
  uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--
-- the UUID operators
--

CREATE FUNCTION
  uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
  uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
  uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
  uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';
CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (
  leftarg    = uuid,
  rightarg   = uuid,
  negator    = <>,
  procedure  = uuid_eq
);

CREATE OPERATOR <> (
  leftarg    = uuid,
  rightarg   = uuid,
  negator    = =,
  procedure  = uuid_ne
);

CREATE OPERATOR < (  
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = >,
  negator    = >=,
  procedure  = uuid_lt
);

CREATE OPERATOR > (  
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = <,
  negator    = <=,
  procedure  = uuid_gt
);

CREATE OPERATOR <= (  
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = >=,
  negator    = >,
  procedure  = uuid_le
);
CREATE OPERATOR >= (  
  leftarg    = uuid,  
  rightarg   = uuid,  
  commutator = <=,  
  negator    = <,  
  procedure  = uuid_ge  
);

--  the UUID support for indexing
--

CREATE FUNCTION  
  uuid_hash(uuid) RETURNS INTEGER  
  IMMUTABLE STRICT  
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION  
  uuid_cmp(uuid, uuid) RETURNS INTEGER  
  IMMUTABLE STRICT  
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops  
  DEFAULT FOR TYPE uuid USING hash AS  
  OPERATOR 1 =, -- 1: equal  
  FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops  
  DEFAULT FOR TYPE uuid USING btree AS  
  OPERATOR 1 <, -- 1: less than  
  OPERATOR 2 <=, -- 2: less than or equal  
  OPERATOR 3 =, -- 3: equal  
  OPERATOR 4 >=, -- 4: greater than or equal  
  OPERATOR 5 >, -- 5: greater than  
  FUNCTION 1 uuid_cmp(uuid, uuid);

--  epilog
--

COMMIT;

Found in path(s):
  */opt/cola/permits/1251805954_1641900661.29/0/ossr-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/pgsql/uuid.sql.in
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**
** uuid_prng.c: PRNG API implementation
*/

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** uuid.c: PostgreSQL Binding (C part)
*/

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**
** uuid_time.h: Time Management API
*/

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**
** ui64.h: API declaration
*/

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uuid++.cc: library C++ API implementation
/

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cfgin.m4: PHP/Zend API build-time configuration (language: m4)
cfnl

PHP_ARG_ENABLE(uuid, OSSP uuid module,
   [ --enable-uuid Enable OSSP uuid extension module.])

if test "$PHP_UUID" != "no"; then
   PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
   AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
   PHP_ADD_LIBPATH([..], )
   PHP_ADD_LIBRARY([uuid], , UUID_SHARED_LIBADD)
   PHP_ADD_INCLUDE([..])
   PHP_SUBST(UUID_SHARED_LIBADD)

dnl  avoid linking conflict with a potentially existing uuid_create(3) in libc
AC_CHECK_FUNC(uuid_create,[
   SAVE_LDFLAGS="$LDFLAGS"
   LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
   AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
   LDFLAGS="$SAVE_LDFLAGS"])
fi

Found in path(s):
* /opt/cola/permits/1251805954_1641900661.29/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/config.m4
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prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
*/

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**
** uuid_str.c: string formatting functions
*/

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**
** ui128.c: implementation of 128-bit unsigned integer arithmetic
*/

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###
## NAME

B<OSSP uuid> - B<Universally Unique Identifier> (C++ API)

## VERSION

OSSP uuid UUID_VERSION_STR

## DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API. It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type B<uuid_t>.

## APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of B<OSSP uuid> consists of the following components:

## CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

## CLASSES

The following classes are provided:
This is the class corresponding to the C API type `uuid_t`. It is the main object.

This is the class corresponding to the C API function `uuid_error`. It is the object thrown as an exception in case of any errors.

The following methods are provided:

- The standard constructor.
- The copy constructor for `uuid` class.
- The import constructor for C API objects.
- The import constructor for binary representation.
- The import constructor for string representation.
- The standard destructor for `uuid` class.
- The assignment operator corresponding to the copy constructor.
- The assignment operator corresponding to the C API object.

```c
=over 4
=item B<uuid>();
The standard constructor.

=item B<uuid>(const uuid &_obj);
The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t * _obj);
The import constructor for C API objects.

=item B<uuid>(const void * _bin);
The import constructor for binary representation.

=item B<uuid>(const char * _str);
The import constructor for string representation.

=item ~B<uuid>();
The standard destructor for B<uuid> class.

=item uuid &B<uuid>::operator=(const uuid & _obj);
The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid>::operator=(const uuid_t * _obj);
```
The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid::operator=>(const void * _bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid::operator=>(const char * _str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid::clone>(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid::load>(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid::make>(unsigned int _mode, ...);

Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid::isnil>(void);

Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid::compare>(const uuid & _obj);

Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid::operator==>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for equality.

=item int B<uuid::operator!=>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for inequality.

=item int B<uuid::operatorE<lt>>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than.

=item int B<uuid::operatorE<lt>=>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than-or-equal.

=item int B<uuid::operatorE<gt>>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operatorE<gt>=>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.
The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operatorE<gt>=>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.

=item void B<uuid::import>(const void *_bin);

Regular method corresponding to the C API function B<uuid_import> for binary representation usage.

=item void B<uuid::import>(const char * _str);

Regular method corresponding to the C API function B<uuid_import> for string representation usage.

=item void *B<uuid::binary>(void);

Regular method corresponding to the C API function B<uuid_export> for binary representation usage.

=item char *B<uuid::string>(void);

Regular method corresponding to the C API function B<uuid_export> for string representation usage.

=item char *B<uuid::integer>(void);

Regular method corresponding to the C API function B<uuid_export> for single integer value representation usage.

=item char *B<uuid::summary>(void);

Regular method corresponding to the C API function B<uuid_export> for textual summary representation usage.

=item unsigned long B<uuid::version>(void);

Regular method corresponding to the C API function B<uuid_version>.

=item B<uuid_error_t>()

The standard constructor for B<uuid_error_t> class.

=item B<uuid_error_t>(uuid_rc_t code)

The standard constructor for B<uuid_error_t> class with return code initialization.

=item ~B<uuid_error_t>()

The standard destructor for B<uuid_error_t> class.

=item void B<uuid_error_t::code>(uuid_rc_t code)
Regular method for setting the return code.

=item uuid_rc_t B<uuid_error_t::code>(void)

Regular method for fetching the return code.

=item char *B<uuid_error_t::string>(void)

Regular method for fetching the string corresponding to the current return code.

=back

=head1 EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id_ns;
    char *str;

    id_ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id_ns, url);
    str = id.string();
    return str;
}

=head1 SEE ALSO

uuid(3).

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**
** uuid.h: library API definition
*/

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** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

Found in path(s): 
*/opt/cola/permits/1251805954_1641900661.29/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_dce.c

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**
** uuid_time.c: Time Management
* /

Found in path(s):
* /opt/cola/permits/1251805954_1641900661.29/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_time.c

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##
## uuid.pod: manual page
##
=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION
B\texttt{<OSSP uuid>} is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universal Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE:1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B\texttt{<OSSP uuid>}.

\section*{UUID Binary Representation}

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

\begin{verbatim}
[4] version
-->| |--
 |  |
[32] [16]                      [16]      |  | time_hi
time_low                  time_mid    | _and_version
|<---------------------------->||<------------>||<------------>|
| MSB                          ||              ||  |           |
| /                            ||              ||  |           |
|/                             ||              ||  |           |
+------++------++------++------++------++------++------+
|  15  ||  14  ||  13  ||  12  ||  11  ||  10  |####9  ||   8  |
| MSO ||      ||      ||      ||      ||      |####   ||      |
+------++------++------++------++------++------++------+
7654321076543210765432107654321076543210765432107654321076543210
~+------------------------++------------------------+
##* 7  ||   6  ||   5  ||   4  ||   3  ||   2  ||   1  ||   0  |
##*    ||      ||      ||      ||      ||      ||      ||  LSO |
\end{verbatim}
An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```
uuid = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> <clock_seq_low> "-" <node>

time_low = 4*<hex_octet>
time_mid = 2*<hex_octet>
time_high_and_version = 2*<hex_octet>
clock_seq_high_and_reserved = <hex_octet>
clock_seq_low = <hex_octet>
node = 6*<hex_octet>
hex_octet = <hex_digit> <hex_digit>
hex_digit = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
               |"a"|"b"|"c"|"d"|"e"|"f"
               |"A"|"B"|"C"|"D"|"E"|"F"
```

An example of a UUID string representation is the ASCII string
"C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_STR>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C<urn:uuid:" as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>.

Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25.>". An example OID is "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:" as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)

These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable
message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=head2 UUID Uniqueness

Version 1 UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version 4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special I<Nil> UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE
The ISO-C Application Programming Interface (API) of B<OSSP uuid> consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=item B<UUID_VERSION>

The hexadecimal encoded B<OSSP uuid> version. This allows compile-time checking of the B<OSSP uuid> version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>.$I<r>.$I<t>$I<l>" is calculated with the B<GNU shool> B<version> command and is (in Perl-style for concise description) "sprintf('0x%x%02x%d%02x', $I<v>, $I<r>, {qw(s 9 . 2 b 1 a 0)}->{$I<t>}, ($I<t> eq 's' ? 99 : $I<l>))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) does I<not> include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of
length B<UUID_LEN_BIN>, the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>, the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=head2 FUNCTIONS

The following functions are provided:

=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);
Create a new UUID object and store a pointer to it in C<*I<uuid>.
A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the I<Nil> UUID.

=item uuid_rc_t B<uuid_destroy>(uuid_t *I<uuid>);
Destroy UUID object I<uuid>.

=item uuid_rc_t B<uuid_clone>(const uuid_t *I<uuid>, uuid_t **I<uuid_clone>);
Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

=item uuid_rc_t B<uuid_isnil>(const uuid_t *I<uuid>, int *I<result>);
Checks whether the UUID in I<uuid> is the I<Nil> UUID.
If this is the case, it returns I<true> in C<*I<result>.
Else it returns I<false> in C<*I<result>.

=item uuid_rc_t B<uuid_compare>(const uuid_t *I<uuid>, const uuid_t *I<uuid2>, int *I<result>);
Compares the order of the two UUIDs in I<uuid1> and I<uuid2> and returns the result in C<*I<result>: C<-1> if I<uuid1> is smaller than I<uuid2>, C<0> if I<uuid1> is equal to I<uuid2> and C<+1> if I<uuid1> is greater than I<uuid2>.

=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);
Imports a UUID I<uuid> from an external representation of format I<fmt>.
The data is read from the buffer at I<data_ptr> which contains at least I<data_len> bytes.
The format of the external representation is specified by \texttt{fmt} and the minimum expected length in \texttt{data_len} depends on it. Valid values for \texttt{fmt} are \texttt{UUID_FMT_BIN}, \texttt{UUID_FMT_STR} and \texttt{UUID_FMT_SIV}.

\begin{verbatim}
=setItem uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t I<data_len>);
\end{verbatim}

Exports a UUID \texttt{I<uuid>} into an external representation of format \texttt{I<fmt>}. Valid values for \texttt{I<fmt>} are \texttt{UUID_FMT_BIN}, \texttt{UUID_FMT_STR}, \texttt{UUID_FMT_SIV} and \texttt{UUID_FMT_TXT}.

The data is written to the buffer whose location is obtained by dereferencing \texttt{I<data_ptr>} after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument \texttt{I<data_ptr>} is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "\texttt{C<unsigned char **>}" for \texttt{UUID_FMT_BIN} and "\texttt{C<char **>}" for \texttt{UUID_FMT_STR}, \texttt{UUID_FMT_SIV} and \texttt{UUID_FMT_TXT}.

The buffer has to have room for at least \texttt{C<*I<data_len>} bytes. If the value of the pointer after "casting" and dereferencing \texttt{I<data_ptr>} is \texttt{C<NULL>}, \texttt{I<data_len>} is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing \texttt{I<data_ptr>} (the caller has to free(3) it later on).

If \texttt{I<data_len>} is not \texttt{C<NULL>}, the number of available bytes in the buffer has to be provided in \texttt{C<*I<data_len>} and the number of actually written bytes are returned in \texttt{C<*I<data_len>} again. The minimum required buffer length depends on the external representation as specified by \texttt{I<fmt>} and is at least \texttt{B<UUID_LEN_BIN>} for \texttt{UUID_FMT_BIN}, \texttt{B<UUID_LEN_STR>} for \texttt{UUID_FMT_STR} and \texttt{B<UUID_LEN_SIV>} for \texttt{UUID_FMT_SIV}. For \texttt{UUID_FMT_TXT} a buffer of unspecified length is required and hence it is recommended to allow \texttt{B<OSSP uuid>} to allocate the buffer as necessary.

\begin{verbatim}
=setItem uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);
\end{verbatim}

Loads a pre-defined UUID value into the UUID object \texttt{I<uuid>}. The following \texttt{I<name>} arguments are currently known:

\begin{verbatim}
=over 4
=setItem I<name>  I<UUID>
=setItem nil  00000000-0000-0000-0000-000000000000
=setItem ns:DNS  6ba7b810-9dad-11d1-80b4-00c04fd430c8
\end{verbatim}
The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>), second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.

EXAMPLE
The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

```c
/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}
```

=head1 SEE ALSO

The following are references to B<UUID> documentation and specifications:

=over 4

=item

B<A Universally Unique IDentifier (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B-Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm

=item

Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340.00),
http://www.iso.ch/cate/d2229.html

=item

B<HTTP Extensions for Distributed Authoring (WebDAV)>,
section B<6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
http://www.ietf.org/rfc/rfc2518.txt

=item

B<DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE
B `<OSSP uuid>` was implemented in January 2004 by Ralf S. Engelschall `<rse@engelschall.com>`. It was prompted by the use of UUIDs in the B `<OSSP as>` and B `<OpenPKG>` projects. It is a clean room implementation intended to be strictly standards compliant and maximum portable.

=head1 SEE ALSO

`uuid(1)`, `uuid-config(1)`, `OSSP::uuid(3)`.

=cut

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**
** uuid_md5.c: MD5 API implementation
*/
*/
*/
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## NAME

Data::UUID - B/OSSP uuid> Backward Compatibility Perl Binding

## DESCRIPTION

B<Data::UUID> is the B/OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B/OSSP::uuid> without changes.

## SEE ALSO

B/OSSP::uuid>.

## HISTORY

The backward compatibility Perl binding B<Data::UUID> for B/OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<dexter@debian.orgE<gt>. It was later cleaned up and speed optimized in December 2005 by David Wheeler E<lt>david@justatheory.comE<gt>.

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** uuid_cli.c: command line tool
*/

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** uuid_str.h: string formatting functions
*/
OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- http://www.ossdp.org/pkg/lib/uuid/

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** uuid_prng.h: PRNG API definition
*/

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** uuid_bm.c: bitmask API implementation
*/

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=pod

=head1 NAME

B< OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-l>]
[B<-F> I(format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>
B< OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I< Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B< OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS

=over 3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>", and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>
Generate $I<count>$ UUIDs instead of just a single one (the default).

=item B<-1>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.
# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272f7f25

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272f7f25
encode: STR: 01c47915-4777-11d8-bc70-0090272f7f25
SIV: 23493740375285788879230943747721111141
version: 1 (time and node based)
clock: 15472 (usually random)
node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.ossp.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd

# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV: 378986628560791088810081838350376205
version: 3 (name based, MD5)
(not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV: 312712571721458096795100956955942831823
version: 4 (random data based)
(no semantics: random data only)
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 **
 ** uuid_sha1.c: SHA-1 API implementation
 */

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** uuid.xs: Perl Binding (Perl/XS part)
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**
** uuid_ac.c: auto-configuration
*/

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##
## uuid.pod: Perl Binding (Perl/POD part)
##
=pod

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API. Three variants are provided:

=head2 TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

=over 4
=item C<use OSSP::uuid;>
=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>
=item C<$uuid = [ $mode, ... ];>
=item C<print "UUID=$uuid\n";>
=item C<untie $uuid;>
=back

=head2 OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

=over 4
=item C<use OSSP::uuid;>
=item C<my $uuid = B<new>C< OSSP::uuid;>
=item C<$uuid-E<gt>B<load>C<($name);>
=item C<$uuid-E<gt>B<make>C<($mode, ...);>
=item C<$result = $uuid-E<gt>B<isnil>C<();>
=item C<$result = $uuid-E<gt>B<compare>C<($uuid2);>
Additionally, the strings C\"v1\", C\"v3\", C\"v4\", C\"v5\" and C\"mc\" can be used in C\$mode\> and the strings C\"bin\", C\"str\", and C\"txt\" can be used for C\$fmt\>.

=head2 C-STYLE API

The C-style API is a direct mapping of the B\《OSSP uuid\> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=over 4

=item C\use OSSP::uuid qw(:all);>

=item C\my $uuid; $rc = >B<uuid_create>C\($uuid);>

=item C\$src = >B<uuid_load>C\($uuid, $name);>

=item C\$src = >B<uuid_make>C\($uuid, $mode, ...);>

=item C\$src = >B<uuid_isnil>C\($uuid, $result);>

=item C\$src = >B<uuid_compare>C\($uuid, $uuid2, $result);>

=item C\$src = >B<uuid_import>C\($uuid, $fmt, $data_ptr, $data_len);>

=item C\$src = >B<uuid_export>C\($uuid, $fmt, $data_ptr, $data_len);>

=item C\$src = >B<uuid_error>C\($rc);>

=item C\$ver = >B<uuid_version>C\();>

=item C\$src = >B<uuid_destroy>C\($uuid);>

=back
Additionally, the following constants are exported for use in C<$rc>, C<$mode>, C<$fmt> and C<$ver>:

C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
C<UUID_RC_MEM>,
C<UUID_RC_SYS>,
C<UUID_RC_INT>,
C<UUID_RC_IMP>,
C<UUID_MAKE_V1>,
C<UUID_MAKE_V3>,
C<UUID_MAKE_V4>,
C<UUID_MAKE_V5>,
C<UUID_MAKE_MC>,
C<UUID_FMT_BIN>,
C<UUID_FMT_STR>,
C<UUID_FMT_SIV>,
C<UUID_FMT_TXT>.

=head1 EXAMPLES

The following two examples create the version 3 UUID C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid
";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid
";
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid   = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
# C-style API (low-level)
use OSSP::uuid qw(all);
my $uuid; uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in
November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

Found in path(s):
* /opt/cola/permits/1251805954_1641900661.29/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.pod
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**
**  uuid.c: PHP/Zend API (language: C)
*/

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** uuid_dce.h: DCE 1.1 compatibility API definition
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** uuid_md5.h: MD5 API definition
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## uuid.tm: Perl XS typemap for xsubpp(1)

### TYPEMAP

<table>
<thead>
<tr>
<th>Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>uuid_t *</td>
<td>T_PTRREF</td>
</tr>
<tr>
<td>uuid_t **</td>
<td>T_PTRREF</td>
</tr>
<tr>
<td>uuid_rc_t</td>
<td>T_IV</td>
</tr>
<tr>
<td>uuid_fmt_t</td>
<td>T_IV</td>
</tr>
<tr>
<td>int *</td>
<td>T_PV</td>
</tr>
<tr>
<td>size_t *</td>
<td>T_PV</td>
</tr>
<tr>
<td>const void *</td>
<td>T_PV</td>
</tr>
<tr>
<td>void **</td>
<td>T_PV</td>
</tr>
</tbody>
</table>

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/*

** OSSP ui64 - 64-Bit Arithmetic
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**
** ui64.c: implementation of 64-bit unsigned integer arithmetic
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**
** uuid++.hh: library C++ API definition
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1.523 jetty-webapp 9.3.27.v20190418

1.524 songgao-water 0.0.0-20200317203138-2b4b6d7c09d8

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1.525 go-autorest-validation 0.2.0

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

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Wheel-Version: 1.0
Generator: bdist_wheel (0.29.0)
Root-Is-Purelib: true
Tag: py3-none-any
Metadata-Version: 2.0
Name: maglev-appserver
Version: 1.7.29
Summary: Maglev Python AppServer(1.7.29)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: Jinja2 (==2.11.3)
Requires-Dist: MarkupSafe (==1.0)
Requires-Dist: aiohttp (==2.2.5)
Requires-Dist: aiohttp-swagger (==1.0.4)
Requires-Dist: async-timeout (==1.4.0)
Requires-Dist: charset (==3.0.4)
Requires-Dist: importlib-metadata (==2.0.0)
Requires-Dist: influxdb (==3.0.0)
Requires-Dist: jaeger-client (==3.8.0)
Requires-Dist: jsonschema (==2.5.1)
Requires-Dist: maglev-appct (==1.6.0)
Requires-Dist: motor (==1.1)
Requires-Dist: multidict (==4.7.6)
# Installation

+ Requires: Python 3.5 download the dmg and install, use pyvenv to create a virtual environment

# How to test and develop in local mac
- Use pyvenv to create a virtual env in `/opt/maglev`
- u can either call the activate script to activate the virtualenv

## 1.530 influxdb-java 2.20

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* `/opt/cola/permits/1109740277_1606410903.59/0/influxdb-java-2-20-sources-1-jar/META-INF/maven/org.influxdb/influxdb-java/pom.xml`

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* /opt/cola/permits/1109740277_1606410903.59/0/influxdb-java-2-20-sources-1-
jar/org/influxdb/annotation/Measurement.java
* /opt/cola/permits/1109740277_1606410903.59/0/influxdb-java-2-20-sources-1-
jar/org/influxdb/annotation/Column.java
* /opt/cola/permits/1109740277_1606410903.59/0/influxdb-java-2-20-sources-1-
jar/org/influxdb/impl/InfluxDBResultMapper.java
* /opt/cola/permits/1109740277_1606410903.59/0/influxdb-java-2-20-sources-1-
jar/org/influxdb/InfluxDBMapperException.java

1.531 libgdbm6 1.18.1-5
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1.532 tdb 1.45.5

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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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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1.543 libstd-c 10.3.0 1ubuntu1~20.04

1.543.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-10</td>
<td>libgnat-10</td>
<td>gnat-10-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-10</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-10</td>
<td>gcc-10-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-10</td>
<td>libstdc++6</td>
<td>libstdc++6-10-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-10</td>
<td>libgfortran5</td>
<td>gfortran-10-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gecgo-10</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-10</td>
<td>libobjc4</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-10</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-10-dbg</td>
<td>libstdc++6-10-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-10-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1   GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
- libstdc++-v3
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  * Cygnus Support, drepper@cygnus.com.

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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.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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- d/phobos/etc/c/zlib/*

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- d/phobos/*

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iconv (Charset Conversion Library) v2.0

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1.546 xauth 1.1-0ubuntu1

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1.549 ncurses-base 6.2 0ubuntu2

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-- vile: txtmode file-encoding=utf-8
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/**
 * A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`
 * field. This is particularly useful for instantiating `Array`'s whose element types are unknown
* ClassTag’s are a weaker special case of [[scala.reflect.api.TypeTags#TypeTag]]s, in that they
* wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type
* information. That is, `ClassTag`’s are constructed from knowing only the top-level class of a
* type, without necessarily knowing all of its argument types. This runtime information is enough
* for runtime `Array` creation.
*
* For example:
* ```
* scala> def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
* mkArray: [T](elems: T*)(implicit evidence$1: scala.reflect.ClassTag[T])Array[T]
* `ClassTag`
* scala> mkArray(42, 13)
* res0: Array[Int] = Array(42, 13)
* `Array`
* scala> mkArray("Japan","Brazil","Germany")
* res1: Array[String] = Array(Japan, Brazil, Germany)
* ```
* See [[scala.reflect.api.TypeTags]] for more examples, or the
* [[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]
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* `ClassTag`
* */

```
1.552 jackson-annotations 2.10.5
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1.562 protobuf-java 3.13.0

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1.565 debianutils 4.9.1

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ISO C9x compliant stdint.h for Microsoft Visual Studio
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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>
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Version 2.1, February 1999

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##
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## version 0.1
##
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gunicorn.logging_config

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doc/sitemap_gen.py

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util/unlink.py
backport frop python3 Lib/test/support.py

gunicorn/selectors.py

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1.596 libselinux 3.0 1build2

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1.598 witness 1.0.210

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Metadata-Version: 2.1
Name: witness
Version: 1.0.210
Summary: Witness CLI (1.0.210)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: click (==6.6)
Requires-Dist: Jinja2 (==2.8)
Requires-Dist: click-completion (==0.2.1)
Requires-Dist: requests (==2.24.0)
Requires-Dist: urllib3 (==1.25.10)

# 1. Development Setup

## Install Python
Install Python 3.5.2 from [here](https://www.python.org/downloads/release/python-352/)

# 2. Build

## Build locally

```shell script
./build_local.sh
```

# 3. Install

```
pip install witness-1.0.210-py2.py3-none-any.whl
```

## 3. Usage

```
witness --help
witness register --help
witness reconnect --help
```

Found in path(s):

1.599 libquadmath 10.3.0-1ubuntu1~20.04

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.610 jackson-xc 2.10.4

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1.612 patch 2.7.6-6

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1.620 maglev-api 1.7.16

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Name: maglev-api
Version: 1.7.16
Summary: Maglev API (1.7.16)
Home-page: UNKNOWN
Author: UNKNOWN
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Platform: UNKNOWN
Requires-Dist: PyYAML (==3.12)
Requires-Dist: monotonic (==1.1)
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+ Requires : Python 3.5 download the dmg and install, use pyvenv to create a virtual environment

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* /opt/cola/permits/1175835377_1624505142.92/0/maglev-api-1-7-16-dist-info-
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1.622 requests-socket 0.2.0

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1.624 client-java-api 10.0.0

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THE BASIC LIBRARY FUNCTIONS

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Found in path(s):
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4.jar/net/minidev/json/writer/DefaultMapper.java

1.629 netty-all 4.1.61.Final

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1.636 pyyaml 3.12
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1.637 client-java-proto 10.0.0

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*/

Found in path(s):
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Certificates.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Authentication.java
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1.638 simpleclient-httpserver 0.9.0

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1.647 klauspost-compress 1.13.5

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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

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Regards, Juan

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MA

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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
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Regards, Kurt

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Protocol Buffers for Go with Gadgets

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

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1.657 libblockfile 1.16-1.1

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1.661 initramfs-tools 0.136ubuntu6.2

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The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.665 libkrb 1.17 6ubuntu4.1

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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_dup_name.c
lib/gssapi/mechglue/g_dup_status.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
slave/kproplg.c

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

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1.691 make-dfsg 4.2.1-1.2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

<xsl:variable name="isc.copyright.text">
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</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$isc.copyright.text"/>
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:template name="isc.copyright.format">
        <xsl:with-param name="text" select="copyright"/>
      </xsl:template>
    </xsl:for-each>
  </xsl:call-template>
</xsl:variable>
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1.698 numpy 1.19.5

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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The `rk_random` and `rk_seed` functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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1.699 spring-retry 1.0.3.RELEASE

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1.706 pip 20.0.2

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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

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

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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.. currentmodule:: flask

Blog Blueprint
-------------

You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them out.

The Blueprint
----------

Define the blueprint and register it in the application factory.

.. code-block:: python
   :caption: `flaskr/blog.py`
from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
from werkzeug.exceptions import abort
from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)

Import and register the blueprint from the factory using :meth:`app.register_blueprint() <Flask.register_blueprint>`. Place the new code at the end of the factory function before returning the app.

```python
.. code-block:: python
   :caption: "flaskr/__init__.py"

def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a `url_prefix`. So the `index` view will be at `/`, the `create` view at `/create`, and so on. The blog is the main feature of Flaskr, so it makes sense that the blog index will be the main index.

However, the endpoint for the `index` view defined below will be `blog.index`. Some of the authentication views referred to a plain `index` endpoint. :meth:`app.add_url_rule() <Flask.add_url_rule>` associates the endpoint name `index` with the `/` url so that `url_for('index')` or `url_for('blog.index')` will both work, generating the same `/` URL either way.

In another application you might give the blog blueprint a `url_prefix` and define a separate `index` view in the application factory, similar to the `hello` view. Then the `index` and `blog.index` endpoints and URLs would be different.

Index
The index will show all of the posts, most recent first. A `JOIN` is used so that the author information from the `user` table is available in the result.

```python
@bp.route('/

def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username
        FROM post p JOIN user u ON p.author_id = u.id
        ORDER BY created DESC
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```html
{% extends 'base.html' %}
{% block header %}
<h1>{{ block.title }}</h1>
{% if g.user %}
<a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
{% endblock %}
{% block content %}
{% for post in posts %}
<article class="post">
    <header>
        <div>
            <h1>{{ post['title'] }}</h1>
            <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
        </div>
        {% if g.user['id'] == post['author_id'] %}
        <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
        {% endif %}
    </header>
    <p class="body">{{ post['body'] }}</p>
</article>
{% if not loop.last %}
<hr>
{% endif %}
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside Jinja for loops. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create
-----

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python

   :caption: `flaskr/blog.py`

   @bp.route('/create', methods=('GET', 'POST'))
   @login_required
   def create():
     if request.method == 'POST':
       title = request.form['title']
       body = request.form['body']
       error = None

       if not title:
         error = 'Title is required.'

       if error is not None:
         flash(error)
       else:
         db = get_db()
         db.execute(
             'INSERT INTO post (title, body, author_id)
             VALUES (?, ?, ?)',
             (title, body, g.user['id'])
         )
         db.commit()
return redirect(url_for('blog.index'))

return render_template('blog/create.html')

.. code-block:: html+jinja
   :caption: `flaskr/templates/blog/create.html`

{%- extends 'base.html' %}

{%- block header %}
   <h1>{%- block title %}New Post{%- endblock %}</h1>
{%- endblock %}

{%- block content %}
   <form method="post">
      <label for="title">Title</label>
      <input name="title" id="title" value="{{ request.form['title'] }}" required>
      <label for="body">Body</label>
      <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
      <input type="submit" value="Save">
   </form>
{%- endblock %}

Update
------

Both the `update` and `delete` views will need to fetch a `post` by `id` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the `post` and call it from each view.

.. code-block:: python
   :caption: `flaskr/blog.py`

def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username
        FROM post p JOIN user u ON p.author_id = u.id
        WHERE p.id = ?', (id,)).fetchone()
    if post is None:
        abort(404, f"Post id {id} doesn't exist.")
    if check_author and post['author_id'] != g.user['id']:
        abort(403)
return post

.. code-block:: python
   :caption: ``flaskr/blog.py``

   @bp.route('/<int:id>/update', methods=('GET', 'POST'))
   @login_required
def update(id):
   post = get_post(id)

   if request.method == 'POST':
       title = request.form['title']
       body = request.form['body']
       error = None

       if not title:
           error = 'Title is required.'

       if error is not None:
           flash(error)
       else:
           db = get_db()
           db.execute(
               'UPDATE post SET title = ?, body = ?
               WHERE id = ?
               ',
               (title, body, id)
           )
           db.commit()
           return redirect(url_for('blog.index'))
   else:
       db = get_db()
       db.execute(
           'UPDATE post SET title = ?, body = ?
           WHERE id = ?
           ',
           (title, body, id)
       )
       db.commit()
       return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the `update` function takes an argument, `id`. That corresponds to the `<int:id>` in the route. A real URL will look like `/1/update`. Flask will capture the `1`, ensure it's an :class:`int`, and pass it as the `id` argument. If you
don't specify `"int:"` and instead do `"<id>"`, it will be a string. To generate a URL to the update page, :func:`url_for` needs to be passed the `"id"` so it knows what to fill in: `"url_for('blog.update', id=post['id'])"`. This is also in the `"index.html"` file above.

The `"create"` and `"update"` views look very similar. The main difference is that the `"update"` view uses a `"post"` object and an `"UPDATE"` query instead of an `"INSERT"`. With some clever refactoring, you could use one view and template for both actions, but for the tutorial it's clearer to keep them separate.

.. code-block:: html+jinja
   :caption: `flaskr/templates/blog/update.html`

   {% extends 'base.html' %}

   {% block header %}
   <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
   {% endblock %}

   {% block content %}
   <form method="post">
   <label for="title">Title</label>
   <input name="title" id="title"
   value="{{ request.form['title'] or post['title'] }}" required>
   <label for="body">Body</label>
   <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
   <input type="submit" value="Save">
   </form>

   <hr>
   <form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
   <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
   </form>
   {% endblock %}

This template has two forms. The first posts the edited data to the current page ("/"<id>/update"). The other form contains only a button and specifies an `"action"` attribute that posts to the delete view instead. The button uses some JavaScript to show a confirmation dialog before submitting.

The pattern `"{{ request.form['title'] or post['title'] }}"` is used to choose what data appears in the form. When the form hasn't been submitted, the original `"post"` data appears, but if invalid form data was posted you want to display that so the user can fix the error, so `"request.form"` is used instead. :data:`request` is another variable that's automatically available in templates.
The delete view doesn’t have its own template, the delete button is part of ```update.html``` and posts to the ```/<id>/delete``` URL. Since there is no template, it will only handle the ```POST``` method and then redirect to the ```index``` view.

```python
@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to `doc:`install`.

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```
[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://flask.palletsprojects.com/
    Changes = https://flask.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/flask/
    Issue Tracker = https://github.com/pallets/flask/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
```
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Framework :: Flask
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Internet :: WWW/HTTP :: WSGI
Topic :: Internet :: WWW/HTTP :: WSGI :: Application
Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
    package_dir = = src
    include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
    flask = flask.cli:main

[tool:pytest]
testpaths = tests
filterwarnings =
error

[coverage:run]
branch = True
source =
    flask
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E402
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/flask/__init__.py: F401

[mypy]
files = src/flask
python_version = 3.6
allow_redefinition = True
disable_subclassing_any = True
no_implicit_optional = True
local_partial_types = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True

[mypy-asgiref.*]
ignore_missing_imports = True

[mypy-blinker.*]
ignore_missing_imports = True

[mypy-dotenv.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

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Flask leverages Jinja2 as its template engine. You are obviously free to use

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* /opt/cola/permits/1223561144_1635923178.65/0/flask-2-0-2-1-tar-gz/Flask-2.0.2/LICENSE.rst
* /opt/cola/permits/1223561144_1635923178.65/0/flask-2-0-2-1-tar-gz/Flask-2.0.2/examples/javascript/LICENSE.rst

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Flask Extension Development
============================

Flask, being a microframework, often requires some repetitive steps to get a third party library working. Many such extensions are already available on `PyPI`_.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension
-----------------------

Extensions are all located in a package called ``flask_something`` where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package ``flask_simplexml``.

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unitests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.
Most importantly the extension must be shipped with a `setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"

So let's get started with creating such a Flask extension. The extension we want to create here will provide very basic support for SQLite3.

First we create the following folder structure:

```bash
flask-sqlite3/
    flask_sqlite3.py
    LICENSE
    README
```

Here's the contents of the most important files:

```python
setup.py

The next file that is absolutely required is the `setup.py` file which is used to install your Flask extension. The following contents are something you can work with:

```python
from setuptools import setup

setup(
    name='Flask-SQLite3',
    version='1.0',
    url='http://example.com/flask-sqlite3/',
    license='BSD',
    author='Your Name',
)
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

flask_sqlite3.py
-------------

Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

Initializing Extensions
-----------------------

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

initialization functions:
If your extension is called `helloworld` you might have a function called `init_helloworld(app[, extra_args])` that initializes the extension for that application. It could attach before / after handlers etc.

classes:

Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an object that handles opening and closing database connections.

When designing your classes, it’s important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable between different applications.

The Extension Code
------------------

Here’s the contents of the `flask_sqlite3.py` for copy/paste::

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

@property
def connection(self):
    return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])
```

ctx = _app_ctx_stack.top
if ctx is not None:
    if not hasattr(ctx, 'sqlite3_db'):
        ctx.sqlite3_db = self.connect()
return ctx.sqlite3_db

So here's what these lines of code do:

1. The `__init__` method takes an optional app object and, if supplied, will call `init_app`.
2. The `init_app` method exists so that the `SQLite3` object can be instantiated without requiring an app object. This method supports the factory pattern for creating applications. The `init_app` will set the configuration for the database, defaulting to an in memory database if no configuration is supplied. In addition, the `init_app` method attaches the `teardown` handler.
3. Next, we define a `connect` method that opens a database connection.
4. Finally, we add a `connection` property that on first access opens the database connection and stores it on the context. This is also the recommended way to handling resources: fetch resources lazily the first time they are used.

Note here that we're attaching our database connection to the top application context via `_app_ctx_stack.top`. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this::

    from flask import Flask
    from flask_sqlite3 import SQLite3

    app = Flask(__name__)
    app.config.from_pyfile('the-config.cfg')
    db = SQLite3(app)

You can then use the database from views like this::

    @app.route('/')
    def show_all():
        cur = db.connection.cursor()
        cur.execute(...)  

Likewise if you are outside of a request you can use the database by pushing an app context::
with app.app_context():
    cur = db.connection.cursor()
    cur.execute(...)

At the end of the `with` block the teardown handles will be executed automatically.

Additionally, the `init_app` method is used to support the factory pattern for creating apps:

```python
db = SQLite3()
# Then later on.
app = create_app('the-config.cfg')
db.init_app(app)
```

Keep in mind that supporting this factory pattern for creating apps is required for approved Flask extensions (described below).

.. admonition:: Note on `init_app`

   As you noticed, `init_app` does not assign `app` to `self`. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

   When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`~flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using _app_ctx_stack

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

In the example above, before every request, a `sqlite3_db` variable is assigned to `_app_ctx_stack.top`. In a view function, this variable is accessible using the `connection` property of `SQLite3`. During the teardown of a request, the `sqlite3_db` connection is closed. By using this pattern, the `sqlite3` connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others

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

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions.
on the `PyPI`_. If you feel lost there is still the `mailinglist`_ and the `Discord server`_ to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the API. And this can only work if collaboration happens early.

Approved Extensions
-------------------

Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*. It must provide exactly one package or module named `flask_extension_name`.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension's API must have the following characteristics:

   - It must support multiple applications running in the same Python process. Use `current_app` instead of `self.app`, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the `ext.init_app()` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with `pip install -e .`.

5. It must ship a testing suite that can be invoked with `tox -e py` or `pytest`. If not using `tox`, the test dependencies should be specified in a `requirements.txt` file. The tests must be part of the sdist distribution.

6. The documentation must use the `flask` theme from the
For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.6+ is recommended as of 2020. Use ``python_requires=">= 3.6"`` in ``setup.py`` to indicate supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
.. _mailinglist: https://mail.python.org/mailman/listinfo/flask
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Name: Flask
Version: 2.0.2
Summary: A simple framework for building complex web applications.
Home-page: https://palletsprojects.com/p/flask
Author: Armin Ronacher
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Classifier: Topic :: Internet :: WWW/HTTP :: WSGI :: Application
Classifier: Topic :: Software Development :: Libraries :: Application Frameworks
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: async
Flask
=====

Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn’t enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing
----------

Install and update using `pip`_:

.. code-block:: text

    $ pip install -U Flask


A Simple Example
----------------

.. code-block:: python

    # save this as app.py
    from flask import Flask
    app = Flask(__name__)

    @app.route("/")
    def hello():
        return "Hello, World!"
Contributing

For guidance on setting up a development environment and how to make a contribution to Flask, see the `contributing guidelines`_.

.. _contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst

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The Pallets organization develops and supports Flask and the libraries it uses. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

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Links

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free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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"Source code" for a work means the preferred form of the work for
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Version 3, 29 June 2007

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

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TERMS AND CONDITIONS

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The “source code” for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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       src/udev/mtd_probe/probe_smartmedia.c
       src/udev/scsi_id/scsi.h
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fields:
  site: string
  author: root

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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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1.717 shadow 4.8.1-1ubuntu5

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1.721 libmnl 1.0.4 2

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 2, June 1991

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the combined library with a copy of the same work
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Appendix: How to Apply These Terms to Your New Libraries

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

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

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free software which everyone can redistribute and change under these terms.

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

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

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1.739 maglev-appserver 1.8.12

1.739.1 Available under license:

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

Metadata-Version: 2.0
Name: maglev-appserver
Version: 1.8.12
Summary: Maglev Python AppServer(1.8.12)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: MarkupSafe (==1.0)
Requires-Dist: aiohttp (==2.2.5)
Requires-Dist: aiohttp-swagger (==1.0.4)
Requires-Dist: async-timeout (==1.4.0)
Requires-Dist: charDET (==3.0.4)
Requires-Dist: importlib-metadata (==2.0.0)
Requires-Dist: influxdb (==3.0.0)
Requires-Dist: jaeger-client (==3.8.0)
Requires-Dist: jsonschema (==2.5.1)
Requires-Dist: maglev-appctl (~=1.7.0)
Requires-Dist: motor (==1.1)
Requires-Dist: multidict (==4.7.6)
Requires-Dist: objgraph (==3.1.0)
Requires-Dist: opentracing (==1.3.0)
Requires-Dist: opentracing-instrumentation (==2.4.0)
Requires-Dist: pika (==0.10.0)
Requires-Dist: py-zipkin (==0.4.4)
Requires-Dist: pyJwT (==1.5.1)
Requires-Dist: pyformance (==0.3.4)
Requires-Dist: pymongo (==3.10.1)
Requires-Dist: python-json-logger (==0.1.5)
Requires-Dist: requests (==2.20.1)
Requires-Dist: setuptools (==41.2.0)
Requires-Dist: setuptools-scm (==3.4.3)
Requires-Dist: toml (==0.10.0)
Requires-Dist: tornado (==4.5.3)
Requires-Dist: urllib3 (==1.24.3)
Requires-Dist: uvloop (==0.7.0)
Requires-Dist: yarl (==0.18.0)
Requires-Dist: zipp (==1.0.0)

# Installation
+ Requires: Python 3.5 download the dmg and install, use pyenv to create a virtual environment

# How to test and develop in local mac
- Use pyvenv to create a virtual env in /opt/maglev
- u can either call the activate script to activate the virtualenv

Found in path(s):
* /opt/cola/permits/1152082875_1618066867.53/0/maglev-appserver-1-8-12-dist-info-
  zip/inputdir/packages_extracted/targz/1/packages_extracted/3/packages_extracted/3/packages_extracted/39/maglev_
  appserver-1.8.12.dist-info/METADATA

1.740 contextlib2 0.6.0
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contextlib2 is a derivative of the contextlib module distributed by the PSF
as part of the Python standard library. According, it is itself redistributed
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was added only in Python 2.5, the licenses for earlier Python versions are
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

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1.742 pycparser 2.21
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pycparser -- A C parser in Python

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goproperties - properties file decoder for Go

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

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1.753 plexus-utils 3.2.1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.762 go-difflib 1.0.0

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1.763 libgcrypt 1.8.5 5ubuntu1.1

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1.772 spring-beans 4.3.29.RELEASE

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* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
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* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/Support.java
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* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
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* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
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* /opt/ws_local/PERMITS_SQL/1093519557_1600946753.78/0/spring-beans-4-3-29-release-sources-jar/org/springframework/beans/factory/config/NotReadablePropertyException.java

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/* checkTag : validation tool for libzstd
 * command :
 * $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * 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.
 */

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1.782 certvalidator 0.11.1

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1.783 jline 2.9

1.784 json-path 2.4.0

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1.785 libpammodulesbin 1.3.1 5ubuntu4.3

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-------------------------------------------------------------------------
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -97,6 +97,65 @@
 }
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
{
    PAM_MODUTIL_DEF_PRIVS(privs);

    /* Get the password entry */
    pwd = pam_modutil_getpwnam (pamh, user);
    if (pwd != NULL)
    {
        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
            pam_syslog(pamh, LOG_ERR,
                    "Unable to change UID to %d temporarily\n",
                    pwd->pw_uid);
            retval = PAM_SESSION_ERR;
            goto finished;
        }

        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
            goto finished;
        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
            goto finished;

        if (stat(flag, &s) != 0)
        {
            int fd = open("/etc/legal", O_RDONLY, 0);
            if (fd >= 0) { 
                try_to_display_fd(pamh, fd);
                close(fd);
            }
            mkdir(dir, 0700);
            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
            if (f>=0) close(f);
        }

        finished:
        if (pam_modutil_regain_priv(pamh, &privs)) {
            pam_syslog(pamh, LOG_ERR,
                    "Unable to change UID back to %d\n", privs.old_uid);
            retval = PAM_SESSION_ERR;
        }

        _pam_drop(flag);
        _pam_drop(dir);
    }
    return retval;
}
int pam_sm_open_session(pam_handle_t *pamh, int flags, 
int argc, const char **argv) 
{
    @@ -170,6 +229,9 @@
        if (motd_dir_path != NULL)
            try_to_display_directory(pamh, motd_dir_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    
    return retval;
}
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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```

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File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are slightly different ways to do this. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which is basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY
To use the module the system must support the `fcntl()` system call which probably will restrict its use to POSIX compliant systems.

**INSTALLATION**

To install this module type the following:

```bash
perl Makefile.PL
make
make test
make install
```

**DEPENDENCIES**

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For `File::FcntlFlock::Inline` the C compiler must also be available when the module is used. The installation of the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules require that the Perl `pack()` and `unpack()` function support the 'q' format if the `off_t` type on the system is 64-bit wide.

**ACKNOWLEDGMENTS**

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with `fcntl(2)`, at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

**AUTHOR**

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2
=item File::FcntlLock::XS
=item File::FcntlLock::Pure
=item File::FcntlLock::Inline
=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
$fs->lock( $fh, F_SETLK )
or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
or print "Unlocking failed: " . $fs->error . "\n";

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

$fs = new File::FcntlLock;
The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

$sfs = new File::FcntlLock( l_type   => F_WRLCK,
  l_whence => SEEK_SET,
  l_start  => 0,
  l_len    => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also
Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at \texttt{C<l_start>}, to the end of the file. E.g., a lock obtained with \texttt{L<l_whence>} set to \texttt{C<SEEK_SET>} and both \texttt{L<l_start>} and \texttt{L<l_len>} set to 0 locks the complete file.

According to SUSv3 support for negative values for \texttt{L<l_len>} are permitted, resulting in a lock ranging from \texttt{C<l_start>+L_len>} up to and including \texttt{C<l_start>-1>}. But not all systems support negative values for \texttt{L<l_len>} and will return an error when you try to obtain such a lock, so please read the \texttt{L<fcntl(2)>} man page of the system carefully for details.

If a call of the \texttt{L<lock()>} method with \texttt{C<F_GETLK>} indicates that another process is holding the lock (in which case the \texttt{L<l_type>} property will be either \texttt{C<F_WRLCK>} or \texttt{C<F_RDLCK>}) a call of the \texttt{L<l_pid()>} method returns the PID of the process holding the lock. This method does not accept any arguments.

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (\texttt{but neither File::FcntlLock::Pure \texttt{nor File::FcntlLock::Inline}}), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\begin{verbatim}
$fs->lock( $fh, F_SETLK );
\end{verbatim}

There are three values that can be used as the second argument:
=item C<$SETLK$>

With C<$SETLK$> the L<lock()> method tries to obtain a lock (when L<$l_type$> is set to either C<$WRLCK$> or C<$RDLCK$>) or releases it (if L<$l_type$> is set to C<$UNLCK$>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<$undef$> and C<$errno$> is set to C<$EACCESS$> or C<$EAGAIN$> (please see the the man page for L<fcntl(2)> for more details).

=item C<$SETLK$>

is similar to C<$SETLK$>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<$undef$> and C<$errno$> is set to C<$EINTR$>.

=item C<$GETLK$>

With C<$GETLK$> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<$l_type$> property will be set to C<$UNLCK$>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<$GETLK$> will only make details of one of these processes visible, and one has no control over which process this is.

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<$undef$> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<$fcntl$> function. Perl's
C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4
=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()> . Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2
=item F_GETLK F_SETLK F_SETLKW
=item F_RDLCK F_WRLCK F_UNLCK
=item SEEK_SET SEEK_CUR SEEK_END
=back
=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyini and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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

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Version 2, December 2004

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*** Settings ***
*** Test Cases ***

vc-machine create checks DRS setting and RP options

Set Environment Variable TEST_TIMEOUT 30m

${output}= Install VIC Appliance To Test Server additional-args=--memory 8000 --memory-reservation 512 --memory-shares 6000 --cpu 10000 --cpu-reservation 512 --cpu-shares high

Should Contain ${output}  DRS is recommended, but is disabled
Should Contain ${output} Memory Limit
Should Contain ${output} Memory Reservation
Should Contain ${output} Memory Shares
Should Contain ${output} CPU Limit
Should Contain ${output} CPU Reservation
Should Contain ${output} CPU Shares

/*
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*/

package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"

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

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
for _, v := range res {
    fmt.Fprintf(tw, "%s\t", vLICENSEKey)
    fmt.Fprintf(tw, "%s\t", vEditionKey)
    fmt.Fprintf(tw, "%d\t", vUsed)
    fmt.Fprintf(tw, "%d\t", vTotal)
    fmt.Fprintf(tw, "\n")
}
return tw.Flush()

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    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

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

    id string
}

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

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

    f.StringVar(&cmd.id, "id", ", " , "Entity ID")
}

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

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

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

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id	Scope	Name	License:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s", v.EntityId)
        fmt.Fprintf(tw, "%s", v.Scope)
        fmt.Fprintf(tw, "%s", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
// 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{

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

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

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

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
    }
Type: "HostSystem",
Value: req.EntityId,
}

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

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

return body
}

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

info.LicenseKey = key
info.Labels = labels

return info
}

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tomb - support for clean goroutine termination in Go.

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*/

package license

import ( 
    "context"
type AssignmentManager struct {
    object.Common
}

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

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

    return res.Returnval, nil
}

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

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

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

    return res.Returnval, nil
}
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package license

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    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
}

type Manager struct {
    object.Common
}

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

    return &m
}

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

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

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

    return res.Returnval, nil
}

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

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

    return res.Returnval, nil
}

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

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

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{...}
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}
func parseLicenseFeature(feature string) *licenseFeature {
   lf := new(licenseFeature)
   f := strings.Split(feature, ":")
   lf.name = f[0]
   if len(f) > 1 {
      var err error
      lf.level, err = strconv.Atoi(f[1])
      if err != nil {
         lf.name = feature
      }
   }
   return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
   feature := parseLicenseFeature(key)
   for _, p := range license.Properties {
      if p.Key != "feature" {
         continue
      }
      kv, ok := p.Value.(types.KeyValue)
      if !ok {
         continue
      }
      lf := parseLicenseFeature(kv.Key)
      if lf.name == feature.name && lf.level >= feature.level {
         return true
      }
   }
   return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
   var result InfoList
for _, license := range l {
    if HasFeature(license, key) {
        result = append(result, license)
    }
}

return result
}

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package license

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    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)
type assign struct {
  *flags.ClientFlag
  *flags.OutputFlag
  *flags.HostSystemFlag
  *flags.ClusterFlag

  name   string
  remove bool
}

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

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

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

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

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

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

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

func (cmd *assign) Usage() string {
  return "KEY"
}
func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

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

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

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

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

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

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

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

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>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6de46002
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>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbbfddbe055a7b9e3ce271cfdfb36a
>>> docker_libnetwork-fd27f22aa35e3d57f88688f919d05b744f431fd
>>> docker_libtrust-9ebd2a1374f46905c68a4eb3694a130610adc62a
>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93ce9740f52c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d28e19631e86f
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>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af487fffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
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>>> armon_go-radix-4239b770797c7b5d1243b7b4736304ce8d6b6f0f2
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>>> boltdb_bolt-b514920f8e20a6f8f575e5a12c774f385a59af9
>>> cenkalti_backoff-b02f2bbce11d7e6a6b97282ef71710beff65ef3
>>> client9_misspell-9a1fc2456ac9e8e9b4ce9d9d05b667e7aadec0d357f
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>>> codegangsta_cli-master
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>>> gogo_protobuf_types-6a92c871af85333cf106b2cd937567208dbb2b7
>>> goji/param-d7f49f7d1ed3f5d62e737a8b5bcb7c3d92ce2
>>> golang_lint-chooe5669539f047b2f4c3a421a01b0e8e712ce6
>>> google_go-github_github-7a51fb9285f2a196d5f31daefbf8a489453ef54ff
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>>> libarchive-3.3.1-2.ph2
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>>> openssh-7.5p1-10.ph2
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>>> pcres-8.41-1.ph2
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>>> shadow-4.2.1-16.ph2
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>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-5.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> iptables-1.6.1-4.ph2
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>>> elfutils-0.169-3.ph2
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>>> docker_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd

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>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c3f6a47

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>>> go-openapi_spec-e072eb2390d3a03736a6eb617d30f48369160447

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>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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Go support for leveled logs, analogous to https://code.google.com/google-glog

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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> syncutil_singleflight-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9

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go4-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9/reflectutil/swapper_unsafe_15.go

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>>> armon_go-metrics-f303b03b91d770a11a396777f1d3b55da4002bbcb

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dفا9ب202ا3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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Gocheck - A rich testing framework for Go

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42fca177a36031d648551c751de1daf5f55dd4f0.tar
fs/util/log.go

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/codec/codec.go

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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tomb - support for clean goroutine termination in Go.

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https://www.ietf.org/rfc/rfc2268.txt

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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.

package short

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This differs from Colin Plumb's older public domain implementation in that no exactly 32-bit integer data type is required (any 32-bit or wider unsigned integer data type will do), there's no compile-time endianness configuration, and the function prototypes match OpenSSL's. No code from Colin Plumb's implementation has been reused; this comment merely compares the properties of the two independent implementations.

The primary goals of this implementation are portability and ease of use. It is meant to be fast, but not as fast as possible. Some known optimizations are not included to reduce source code size and avoid compile-time configuration.

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kadmin/server/ipropd_svc.c
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lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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@version 3.0 (December 2000)

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

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

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-- vile: txtmode file-encoding=utf-8

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@version 3.0 (December 2000)

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

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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SYN signatures. Those signatures work for SYN packets only (duh!).

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

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

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman.
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4.9.137\include\dt-bindings\clock\sun4i-a10 pll2.h

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

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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

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

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

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

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

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

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/Bison implementation for Yacc-like parsers in C


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

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

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

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

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

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

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

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

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

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Heavily modified for GnuPG by Werner Koch

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

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Test Socket Type

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

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Version 3, 29 June 2007

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Version 2.0

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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[VIC15GAMS010319]
Gocheck - A rich testing framework for Go

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*/

package license

import (    "context"    "flag"

    "github.com/vmware/govmomi/govc/cli"    "github.com/vmware/govmomi/govc/flags"    "github.com/vmware/govmomi/license"
)

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

    feature string
    }

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

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

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

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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Test 19-4 - DRS Disabled License Features

# Purpose:
To verify that vic-machine create checks for the DRS setting and command flags specific to resource pools in a vSphere environment without DRS, such as a ROBO deployment. If a VCH is being installed in a DRS-disabled environment, vic-machine create should warn that DRS is disabled and mention that any resource pool options supplied in the command will be ignored as they are not applicable in this environment.

# References:
2. [Provide License and Feature Check](https://github.com/vmware/vic/issues/7277)
3. [vic-machine to provide license and feature check](https://github.com/vmware/vic/issues/7275)

# Environment:
This test requires access to VMware Nimbus cluster for dynamic ESXi and vCenter creation. This test should be executed in a vCenter environment with a cluster that has DRS turned off.

See https://confluence.eng.vmware.com/display/CNA/VIC+ROBO for more details.

# Test Steps:
1. Deploy a vCenter testbed with DRS disabled
2. Using vic-machine create, install a VCH with compute resource set to the cluster where DRS is off. Also supply options that are specific to resource pools: cpu, cpu-shares, cpu-reservation, memory, memory-shares and memory-reservation.
3. Delete the VCH

# Expected Outcome:
* All test steps should complete without error
* Step 2's output should contain a message stating that DRS is disabled and that the provided resource pool options will be ignored.

# Possible Problems:
None

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package gobrake

import (
    "fmt"
    "net/http"
)

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

type Notice struct {
    Errors  []Error                `json:"errors"`
    Context map[string]interface{} `json:"context"`
    Env     map[string]interface{} `json:"environment"`
    Session map[string]interface{} `json:"session"`
    Params  map[string]interface{} `json:"params"`
}

func NewNotice(e interface{}, req *http.Request, depth int) *Notice {
    stack := stack(depth)
    notice := &Notice{
        Errors: []Error{
            Type:   fmt.Sprintf("%T", e),
            Message: fmt.Sprintf(e),
            Backtrace: stack,
        }
    }
    return notice
}
Context: map[string]interface{}{
    "notifier": map[string]interface{}{
        "name": "gobrake",
        "version": "2.0.3",
        "url": "https://github.com/airbrake/gobrake",
    },
},
Env: map[string]interface{}{
},
Session: map[string]interface{}{
},
Params: map[string]interface{}{
}
}

if req != nil {
    notice.Context["url"] = req.URL.String()
    if ua := req.Header.Get("User-Agent"); ua != "" {
        notice.Context["userAgent"] = ua
    }
    for k, v := range req.Header {
        if len(v) == 1 {
            notice.Env[k] = v[0]
        } else {
            notice.Env[k] = v
        }
    }
    if err := req.ParseForm(); err == nil {
        for k, v := range req.Form {
            if len(v) == 1 {
                notice.Params[k] = v[0]
            } else {
                notice.Params[k] = v
            }
        }
    }
    return notice
}

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package github

import (
    "context"
    "fmt"
)

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

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`
    SHA     *string  `json:"sha,omitempty"`
    Size    *int     `json:"size,omitempty"`
    URL     *string  `json:"url,omitempty"`
    HTMLURL *string  `json:"html_url,omitempty"`
    GitURL  *string  `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type    *string  `json:"type,omitempty"`
    Content *string  `json:"content,omitempty"`
    Encoding *string  `json:"encoding,omitempty"`
    License *License `json:"license,omitempty"`
}

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

// License represents an open source license.
type License struct {
    Key     *string `json:"key,omitempty"`
    Name    *string `json:"name,omitempty"`
    URL     *string `json:"url,omitempty"`
    SPDXID        *string  `json:"spdx_id,omitempty"`
    HTMLURL       *string  `json:"html_url,omitempty"`
    Featured      *bool     `json:"featured,omitempty"`
    Description   *string  `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body          *string  `json:"body,omitempty"`
}

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

// List popular open source licenses.

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

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

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

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

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

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

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

    return license, resp, nil
}

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>>> appengine-ca59ef35f409df6f1fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c3aee2a62898051af6dc46002
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>>> docker_go-events-aa2e3b13fbbfddbe055a79e3ce271cfdf83ea
>>> docker_libnetwork-fd27f22aa35e3d578868889f91d05744f431fd
>>> docker_libtrust-9eb2d2a1374f46f905c68a4eb3694a130610ad6a2
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>>> yaml_v2-4c78c975fe7c825c6d1466c42be594d1d6f3aba6

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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5c4c41bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57893999b5
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|| cenkalti_backoff-b02f2bbce11d7e69b72f82e1f771b0f26f5e6f3
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|| codegangsta_cli-master
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|| mattryer_sync-d39ce0a11215c84a8b0b5e323fc47dd6e276a1f
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|| miekg_dns-ca336a1f956b89be9c250fd26c7a17412eb4af6
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> docker_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe

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>>> client9_misspell-9a1fc2456ac9e8c9b4cebe9d005b6e7adac0d357f

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>>> codegangsta_cli-master

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Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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assertions-287b4346dc4e71a038c346375a9d572453bc469b.tar.gz
assertions-287b4346dc4e71a038c346375a9d572453bc469b.tar
assertions-287b4346dc4e71a038c346375a9d572453bc469b/internal/oglematchers/transform_description.go

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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graceful-d7d7a205e779a4738d38eda0671ff8bfc965f14/limit_listen.go

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>>> urfave/negroni-ccc4a14984828decb944e6f17fa4a967b18624f2b

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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+build appengine

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```go
package short

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
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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For the verification of the code, its output sequence file
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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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>>> pcre-8.41-1.ph2

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

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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SYN signatures. Those signatures work for SYN packets only (duh!).

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

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Reasonably optimised generic C-code for memcpy on Microblaze
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mkinstalldirs --- make directory hierarchy
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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derived from coreutils m4/warnings.m4

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

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

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

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

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

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

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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

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

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

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

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

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

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

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

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
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Heavily modified for GnuPG by Werner Koch

/  

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

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Test Socket Type

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END OF TERMS AND CONDITIONS
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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

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

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

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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SECTION 4: GNU Library General Public License, V2.0

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[This is the first released version of the library GPL. It is
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free software---to make sure the software is free for all its users.

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your libraries, too.

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

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

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

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

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

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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   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.)

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Version 3, 29 June 2007

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Version 1.1 - 26 February 2007

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

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

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

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

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

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
}
m := license.NewManager(client)
for _, v := range f.Args() {
    err = m.Remove(ctx, v)
    if err != nil {
        return err
    }
}

return nil
}
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*/
package license

import {
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

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

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

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

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

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    // Code continues here...
m := license.NewManager(client)

// From the vSphere 5.5 documentation:

switch t := client.ServiceContent.About.ApiType; t {
  case "HostAgent":
    addFunc = m.Update
  case "VirtualCenter":
    addFunc = m.Add
  default:
    return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
  license, err := addFunc(ctx, v, nil)
  if err != nil {
    return err
  }
  result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))

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    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

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

    feature string
}

func init() {
    cli.Register("license.ls", &ls{}
    
    func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
        cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
        cmd.ClientFlag.Register(ctx, f)

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

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

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

        if err := cmd.OutputFlag.Process(ctx); err != nil {
            return err
        }

        return nil
    }

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

        // Rest of the code...
    }
}
return err

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

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

return cmd.WriteResult(licenseOutput(result))

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@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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Local Variables:
ispell-local-pdict: "ispell-dict"
End:
1.802 pkg_resources 0.0.0

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

Metadata-Version: 2.0
Name: pkg_resources
Version: 0.0.0
Summary: UNKNOWN
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* /opt/cola/permits/1057231109_1610430055.18/0/pkg-resources-0-0-0-dist-info-
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Protocol Buffers for Go with Gadgets

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1.821 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, 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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1.828 jackson-dataformat-yaml 2.8.5

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1.830 gopsutil 3.20.10

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1.837 swagger-models 1.5.13

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

```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

    public Info version(String version) {
        this.setVersion(version);
        return this;
    }

    public Info title(String title) {
        this.setTitle(title);
        return this;
    }

    public Info description(String description) {
        this.setDescription(description);
        return this;
    }

    public Info termsOfService(String termsOfService) {
        this.setTermsOfService(termsOfService);
        return this;
    }

    public Info contact(Contact contact) {
        this.setContact(contact);
        return this;
    }
```
public Info license(License license) {
    this.setLicense(license);
    return this;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getVersion() {
    return version;
}

public void setVersion(String version) {
    this.version = version;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getTermsOfService() {
    return termsOfService;
}

public void setTermsOfService(String termsOfService) {
    this.termsOfService = termsOfService;
}

public Contact getContact() {
    return contact;
}

public void setContact(Contact contact) {
    this.contact = contact;
}

public License getLicense() {
    return license;
}
public void setLicense(License license) {
    this.license = license;
}

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {
            this.title = info.title;
        }
        if (this.termsOfService == null) {
            this.termsOfService = info.termsOfService;
        }
        if (this.contact == null) {
            this.contact = info.contact;
        }
        if (this.license == null) {
            this.license = info.license;
        }
        if (this.vendorExtensions == null) {
            this.vendorExtensions = info.vendorExtensions;
        }
    }
    return this;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    return result;
}
int result = 1;
result = prime * result + ((contact == null) ? 0 : contact.hashCode());
result = prime * result + ((description == null) ? 0 : description.hashCode());
result = prime * result + ((license == null) ? 0 : license.hashCode());
result = prime * result + ((termsOfService == null) ? 0 : termsOfService.hashCode());
result = prime * result + ((title == null) ? 0 : title.hashCode());
result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
result = prime * result + ((version == null) ? 0 : version.hashCode());
return result;
}

@Override
public boolean equals(Object obj) {
if (this == obj) {
    return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
Info other = (Info) obj;
if (contact == null) {
    if (other.contact != null) {
        return false;
    } else if (!contact.equals(other.contact)) {
        return false;
    }
} else if (!contact.equals(other.contact)) {
    return false;
}
if (description == null) {
    if (other.description != null) {
        return false;
    } else if (!description.equals(other.description)) {
        return false;
    }
} else if (!description.equals(other.description)) {
    return false;
}
if (license == null) {
    if (other.license != null) {
        return false;
    } else if (!license.equals(other.license)) {
        return false;
    }
} else if (!license.equals(other.license)) {
    return false;
}
if (termsOfService == null) {
if (other.termsOfService != null) {
    return false;
}
} else if (!termsOfService.equals(other.termsOfService)) {
    return false;
}
if (title == null) {
    if (other.title != null) {
        return false;
    }
} else if (!title.equals(other.title)) {
    return false;
}
if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
if (version == null) {
    if (other.version != null) {
        return false;
    }
} else if (!version.equals(other.version)) {
    return false;
}
return true;
}

package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

Found in path(s):
* /opt/cola/permits/1115259333_1607622200.47/0/swagger-models-1-5-13-sources-1-
  jar/io/swagger/models/Info.java
No license file was found, but licenses were detected in source scan.

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;
public License name(String name) {
    setName(name);
    return this;
}

public License url(String url) {
    setUrl(url);
    return this;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
result = prime * result + ((url == null) ? 0 : url.hashCode());
return result;
}

@Override
public boolean equals(Object obj) {
if (this == obj) {
    return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
License other = (License) obj;
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
return true;
}

Found in path(s):
* /opt/cola/permits/1115259333_160762200.47/0/swagger-models-1-5-13-sources-1-jar/io/swagger/models/License.java

1.838 blackfriday 2.0.1

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1.839 softlayer-go 0.0.0-20180806151055-260589d94c7d
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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

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

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

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

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

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

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

// no documentation yet

type Legal_RegulatedWorkload_Type struct {
    Entity

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

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"
1.840 buildkit 0.9.1-0.20211019185819-8778943ac3da
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.844 simpleclient-common 0.9.0

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1.845 libaudit 1:2.8.5 2ubuntu6

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# Contributions to the urllib3 project
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* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

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

* kennethreitz <me@kennethreitz.com>
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* 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 test suite

* 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 bug fix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from "HTTPResponse.stream()".
  * Bug fix 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>
  * Bug fix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bug fix 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>
  * Bug fix related to reusing connections in indeterminate states.

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

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

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

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

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

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

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

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

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

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection
* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `"long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

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

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

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

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

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

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

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

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

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

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

1.847 speakeasy 0.1.0

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1.848 flask 1.0.2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.852 python-idna 2.8-1
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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

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

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
        ]
    }

    setup(**arguments)
```
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
  * /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

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

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:
# Python 3
>>> import idna
>>> idna.encode('.

>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.

>>> print idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

Packages
---------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

    $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.
.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(‘.’)
    b’xn--eckwd4c7c.xn--zckzah’
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codecs
    >>> print u’.’.encode('idna')
    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
    .

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel``
functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u"
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA
specification no longer normalizes input from different potential ways a user
may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_,
it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.
Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is
an illegal character in an IDN label (i.e. INVALID); and "idna.InvalidCodepointContext" when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2.8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
* /opt/ cola/permits/1138607654_1614296153.76/0/python-idna-2.8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

1.853 libxml 2.9.10+dfsg-5ubuntu0.20.04.1
1.853.1 Available under license:

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1.854 grpcio 1.24.1

1.854.1 Available under license:

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

Metadata-Version: 2.1
Name: grpcio
Version: 1.24.1
Summary: HTTP/2-based RPC framework
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License
Requires-Dist: six (>=1.5.2)
Requires-Dist: futures (>=2.2.0); python_version < "3.2"
Requires-Dist: enum34 (>=1.0.4); python_version < "3.4"

gRPC Python

Package for gRPC Python.

.. [compat_check_pypi] image:: https://python-compatibility-tools.appspot.com/one_badge_image?package=grpcio

Supported Python Versions

Python >= 3.5

Deprecated Python Versions
Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation
------------

gRPC Python is available for Linux, macOS, and Windows.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

$ pip install grpcio

Else system wide (on Ubuntu)...  

::

$ sudo pip install grpcio

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`).

::

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ cd $REPO_ROOT
$ git submodule update --init

# For the next two commands do `sudo pip install` if you get permission-denied errors
$ pip install -rrequirements.txt
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** code:`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

:::

Traceback (most recent call last):
File "<string>", line 17, in <module>
...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
raise VersionConflict(dist, req)
   pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

:::

    sudo pip install --ignore-installed six

* **... see the following error on some platforms**

:::

    /tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
    #include "Python.h"
    ^
You can fix it by installing `python-dev` package. i.e

```
sudo apt-get install python-dev
```

Found in path(s):
* /opt/cola/permits/1114238248_1610576700.58/0/grpcio-1.24.1-dist-info-zip/inputdir/grpcio-1.24.1-cp35-cp35manylinux1_x86_64.wlh_extracted/grpcio-1.24.1.dist-info/METADATA

---

1.855 libgnutls 3.6.13 2ubuntu1.6

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This package was debianized by Ivo Timmermans <ivo@debian.org> on Fri, 3 Aug 2001 10:00:42 +0200.

It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>
It was downloaded from https://www.gnupg.org/ftp/gcrypt/gnutls/

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lib/system/inet_pton.c

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fuzz/gnutls_pkcs12_key_parser_fuzzer.c fuzz/gnutls_pkcs8_key_parser_fuzzer.c
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Comment: https://github.com/benhoyt/inih

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##
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Metadata-Version: 2.1
Name: sapy
Version: 1.2.10
Summary: Python Smart Agent
Home-page: UNKNOWN
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Requires-Python: >=3.5.2,<4.0
Description-Content-Type: text/markdown
Requires-Dist: cryptography (>=3.2.1)
Requires-Dist: requests (<3.0,>=2.13.0)
Requires-Dist: jsonschema (<4.0,>=3.0)
Requires-Dist: jsonref (<1.0,>=0.2.0)
Requires-Dist: pendulum (<3.0,>=2.0.4)
Requires-Dist: lxml (<5.0,>=4.6.2)
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A version of the Cisco Smart Licensing Agent written in Python.

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  zip/inputdir/packages_extracted/targz/1/packages_extracted/1/packages_extracted/1/packages_extracted/46/sapy-
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/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}

* @author Rossen Stoyanchev
* @since 3.1
*/

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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [{@link #locateSource detected}] during response rendering. Users can either specify
 * a specific entry in the model via the [{@link #setSourceKey sourceKey}] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [{@link #getSourceTypes() here}] for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [{@link #setOutputProperties output properties}]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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Protocol Buffers for Go with Gadgets

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goproperties - properties file decoder for Go

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    URL  string `json:"url,omitempty"
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* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
  jar/net/minidev/asm/Accessor.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
  jar/net/minidev/asm/ASMUtil.java

1.874 x-sys 0.0.0-20210630005230-0f9fa26af87c

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0ubuntu1~20.04.1
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==============

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

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

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

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
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- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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1.876 jtoml 1.0.0
1.877 libalgorithm-merge-perl 0.08-3
1.877.1 Available under license:
No license file was found, but licenses were detected in source scan.

    #
    # For testing:
    #
    sub main::diag {
        warn join("", @_, "\n");
    }

    print join(" ", merge(
Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(
    \@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    });

@merged = merge(
    \@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    }, $key_generation_function);

$merged = merge(
    \@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    });
This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

Given references to three lists of items, C<diff3> performs a three-way difference.
This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ ['u', 'a', 'a', 'a'],
  ['u', 'b', 'b', 'b'],
  ['l', 'c', undef, 'c'],
  ['o', undef, 'd', 'd'],
  ['u', 'e', 'e', 'e'],
  ['r', 'f', 'f', undef],
  ['o', 'h', 'g', 'h'],
  ['u', 'i', 'i', 'i'],
  ['o', undef, 'j', 'j'],
  ['u', 'k', 'k', 'k']

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list.
The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```plaintext
q{ <!-- ------ START CONFLICT ------ -->},
(@left),
q{ <!-- ---------------------------- -->},
(@right),
q{ <!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two
sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff>’s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths.
Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

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=over 4

= Vera  
= Vera  

NAME

Algorithm::Merge - Three-way merge and diff

SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

= revert

=under
USAGE
This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
merge: a b d e g i j k

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{ <!-- ------ START CONFLICT ------ -->},
(@left),
q{ <!-- ---------------------------- -->},
(@right),
```
traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

**NO_CHANGE**
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

**A_DIFF**
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**B_DIFF**
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.
C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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1.878 python-defaults 3.8.2-0ubuntu2

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

A. HISTORY OF THE SOFTWARE
------------------------------

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

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

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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==========================================
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1.880.1 Available under license :
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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://click.palletsprojects.com/
  Changes = https://click.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/click/
  Issue Tracker = https://github.com/pallets/click/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python

[options]
packages = find:
  package_dir = = src
  include_package_data = true
  python_requires = >= 3.6

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings = error

[coverage:run]
branch = true
source =
  click
tests

[coverage:paths]
source =
  click
  */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
  E203
  E501
  E722
  W503
max-line-length = 80
per-file-ignores =
  src/click/__init__.py: F401

[mypy]
files = src/click
python_version = 3.6
Disallow subclassing any = True
Disallow untyped calls = True
Disallow untyped defs = True
Disallow incomplete defs = True
Check untyped defs = True
No implicit optional = True
Local partial types = True
No implicit reexport = True
Strict equality = True
Warn redundant casts = True
Warn unused configs = True
Warn unused ignores = True
Warn return any = True
Warn unreachable = True

[mypy-colorama.*]
Ignore missing imports = True

[mypy-importlib_metadata.*]
Ignore missing imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/setup.cfg
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Metadata-Version: 2.1
Name: click
Version: 8.0.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
License-File: LICENSE.rst
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

```sh
$ pip install -U click
```


A Simple Example
----------------

```python
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo("Hello, {name}!")

if __name__ == '__main__':
```

```
hello()

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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------

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Links
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- Documentation: https://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/click/
- Source Code: https://github.com/pallets/click
- Issue Tracker: https://github.com/pallets/click/issues
- Website: https://palletsprojects.com/p/click
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/PKG-INFO

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.. _contrib:

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

click-contrib

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

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/docs/contrib.rst
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Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/tests/test_formatting.py

1.881 findutils 4.7.0 1ubuntu1

1.881.1 Available under license :

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1.882 more-iter-tools 8.8.0
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1.883 rsyslog 8.2001.0-1ubuntu1

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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1.884 zlib 1.2.11.dfsg-2ubuntu1.2

1.884.1 Available under license:

Found license 'General Public License 2.0' in 'No. PKWare has apparently decided to keep that format proprietary, since 42. The match.asm code in contrib is under the GNU General Public License. GNU GPL?'

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

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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).

1.885 bsd-mailx 8.1.2-0.20180807cvs-1
1.885.1 Available under license:

```
# $OpenBSD: Makefile,v 1.11 2016/03/30 06:38:46 jmc Exp $

PROG=mail
SRCS=version.c aux.c cmd1.c cmd2.c cmd3.c cmdtab.c collect.c \
  edit.c fio.c getname.c head.c v7.local.c lex.c list.c main.c names.c \
  popen.c quit.c send.c strings.c temp.c tty.c vars.c
SFILES=mail.help mail.tildehelp
EFILES=mail.rc
LINKS=${BINDIR}/mail ${BINDIR}/Mail ${BINDIR}/mail ${BINDIR}/mailx

distribution:
  cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o root -g wheel \
    -m 644 ${EFILES} ${DESTDIR}/etc
  cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o ${BINOWN} -g ${BINGRP} \n    -m 644 ${SFILES} ${DESTDIR}/usr/share/misc

.include <bsd.prog.mk>
```

```
"$OpenBSD: mail3.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $

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```

"
Mail includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form

```
set folder=letters
```

in your .mailrc file. If, as in the example above, your folder directory does not begin with a `/`, Mail will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

```
/home/person
```

the above example told Mail to find your folder directory in

```
/home/person/letters
```

Anywhere a file name is expected, you can use a folder name, preceded with `+.' For example, to put a message into a folder with the save command, you can use:

```
save +classwork
```

to save the current message in the
i classwork
folder. If the
i classwork
folder does not yet exist, it will be created. Note that messages
which are saved with the
b save
command are automatically removed from your system mailbox.

In order to make a copy of a message in a folder without causing
that message to be removed from your system mailbox, use the
b copy
command, which is identical in all other respects to the
b save
command. For example,
(l
copy +classwork
)l
copies the current message into the
i classwork
folder and leaves a copy in your system mailbox.

The
b folder
command
can be used to direct
i Mail
to the contents of a different folder. For example,
(l
copy +classwork
)l
directs
i Mail
to read the contents of the
i classwork
folder. All of the commands that you can use on your system
mailbox are also applicable to folders, including
b type ,
b delete ,
and
b reply .
To inquire which folder you are currently editing, use simply:
(l
copy +classwork
)l

To list your current set of folders, use the
b folders
command.

To start
.i Mail
reading one of your folders, you can use the
.b \-f
option described in section 2. For example:
.(l
% Mail \-f +classwork
)l
will cause
.i Mail
to read your
.i classwork
folder without looking at your system mailbox.

/*$OpenBSD: version.c,v 1.7 2009/10/27 23:59:40 deraadt Exp */
/*$NetBSD: version.c,v 1.4 1996/06/08 19:48:46 christos Exp */

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*/

/
* Just keep track of the date/sid of this version of Mail.
* Load this file first to get a "total" Mail version.

```
const char version[] = "8.1.2 01/15/2001";
"OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $"m
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"@(#)mail7.nr 8.1 (Berkeley) 6/8/93
"sh 1 "Format of messages"
```

This section describes the format of messages.
Messages begin with a
.line, which consists of the word 
.q From
followed by a user name, followed by anything, followed by
a date in the format returned by the 
.line library routine described in section 3 of the Unix Programmer's
Manual. A possible 
.line
The format date is:
Tue Dec  1 10:58:23 1981
The ctime date may be optionally followed by a single space and a
time zone indication, which
should be three capital letters, such as PDT.
Following the line are zero or more "header field" lines.
Each header field line is of the form:
name: information
Name can be anything, but only certain header fields are recognized as
having any meaning. The recognized header fields are:
article-id ,
bcc ,
cc ,
from ,
reply-to ,
sender ,
subject ,
and
to .
Other header fields are also significant to other systems; see,
for example, the current Arpanet message standard for much more
information on this topic.
A header field can be continued onto following lines by making the
first character on the following line a space or tab character.
If any headers are present, they must be followed by a blank line.
The part that follows is called the
body of the message, and must be ASCII text, not containing null characters.
Each line in the message body must be no longer than 512 characters and
terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested
that this data be encoded in a system which encodes six bits into
a printable character (i.e.: uuencode).
For example, one could use the upper and lower case letters, the digits,
and the characters comma and period to make up the 64 characters.
Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

It should be noted that some network transport protocols enforce limits to the lengths of messages.
.Nm mail ,
.Nm mailx ,
.Nm Mail
.Nd send and receive mail
.Sh SYNOPSIS
 .Nm mail
 .Bk -words
 .Op Fl dElinv
 .Op Fl b Ar list
 .Op Fl c Ar list
 .Op Fl r Ar from-addr
 .Op Fl s Ar subject
 .Ar to-addr ...
 .Ek
 .Nm mail
 .Op Fl dElInv
 .Fl f
 .Op Ar file
 .Nm mail
 .Op Fl dElInv
 .Op Fl u Ar user
 .Sh DESCRIPTION
 .Nm mail
 is an intelligent mail processing system which has
 a command syntax reminiscent of
.Xr ed 1
 with lines replaced by messages.
 .Pp
 The options are as follows:
 .Bl -tag -width Ds
 .It Fl b Ar list
 Send blind carbon copies to
 .Ar list .
 .It Fl c Ar list
 Send carbon copies to
 .Ar list
 of users.
 .Ar list
 should be a comma separated list of names.
 .It Fl d
 Causes
 .Nm mail
 to output all sorts of information useful for debugging
 .Nm mail .
 .It Fl E
 Don't send messages with an empty body.
 .It Fl f
 Use an alternate mailbox.
Defaults to the user's
.Ar mbox
if no
.Ar file
is specified.
When quit,
.Nm mail
writes undeleted messages back to this
.Ar file .
.It Fl I
Forces
.Nm mail
to run in interactive mode, even when input is not a terminal.
In particular, the special
.Ic ~
command character, used when sending mail, is only available interactively.
.It Fl i
Ignore tty interrupt signals.
This is
particularly useful when using
.Nm mail
on noisy phone lines.
.It Fl N
Inhibits initial display of message headers
when reading mail or editing a mail folder.
.It Fl n
Inhibits reading
.Pa /etc/mail.rc
upon startup.
.It Fl r Ar from-addr
Use
.Ar from-addr
as the from address in the message and envelope.
 Overrides any
.Ar from
options in the startup files.
.It Fl s Ar subject
Specify subject on command line
(only the first argument after the
.Fl s
flag is used as a subject; be careful to quote subjects
containing spaces).
.It Fl u Ar user
Equivalent to:
.Pp
.Dl $ mail -f /var/mail/user
.Pp
except that locking is done.
Verbose mode.
The details of
delivery are displayed on the user's terminal.

Startup actions
At startup time,

mail
will execute commands in the system command file,
/etc/mail.rc,
unless explicitly told not to by using the
n option.
Next, the commands in the user's personal command file
~/.mailrc
are executed.

mail
then examines its command line options to determine whether the user
requested a new message to be sent or existing messages in a mailbox
to be examined.

Sending mail
To send a message to one or more people,

mail
can be invoked with arguments which are the names of people to
whom the mail will be sent.
You are then expected to type in
your message, followed
by a control-D
at the beginning of a line.
The section below,
Repeating to or originating mail,
describes some features of
mail
available to help you compose your letter.

Reading mail
In normal usage,

mail
is given no arguments and checks your mail out of the
post office, then
prints out a one line header of each message found.
The current message is initially set to the first message (numbered 1)
and can be printed using the
print command (which can be abbreviated
p).
Moving among the messages is much like moving between lines in
ed;
you may use
.
and
.
to shift forwards and backwards, or simply enter a message number to move
directly.
.Ss Disposing of mail
After examining a message you can
.
.
.Pq Ic d
or
.
.Ic reply
.
Pq Ic r
to it.
Deletion causes the
.Nm mail
program to forget about the message.
This is not irreversible; the message can be
.
.
.Ic undeleted
.
Pq Ic u
by giving its number, or the
.Nm mail
session can be aborted by giving the
.
.
.Ic exit
.
Pq Ic x
command.
Deleted messages, however, will usually disappear, never to be seen again.
.Ss Specifying messages
Commands such as
.
.
.Ic print
and
.
.Ic delete
can be given a list of message numbers as arguments to apply
to a number of messages at once.
Thus
.
.Ic delete 1 2
deletes messages 1 and 2, while
.
.Ic delete 1-5
deletes messages 1 through 5.
.
Pp
Messages may also be selected using one of the following categories:
.
Pp
.Bl -tag -width Ds -offset indent -compact
.It *
all messages
.
It $
last message
.
It :d
deleted messages
 .It :n
new messages
 .It :o
old messages
 .It :r
read messages
 .It :u
unread messages
 .El
 .Pp
Thus the command
 .Ic top ,
which prints the first few lines of a message,
could be used in
 .Ic top *
to print the first few lines of all messages.
 .Ss Replying to or originating mail
You can use the
 .Ic reply
command to
set up a response to a message, sending it back to the
person who it was from.
Text you then type in, up to an end-of-file,
defines the contents of the message.
While you are composing a message,
 .Nm mail
treats lines beginning with the tilde
 .Pq Sq ~
character specially.
For instance, typing
 .Ic ~m
(alone on a line) will place a copy
of the current message into the response, right shifting it by a single
tab-stop (see the
 .Va indentprefix
variable, below).
Other escapes will set up subject fields, add and delete recipients
to the message, and allow you to escape to an editor to revise the
message or to a shell to run some commands.
(These options
are given in the summary below.)
 .Ss Ending a mail processing session
You can end a
 .Nm mail
session with the
 .Ic quit
 .Pq Ic q
Messages which have been examined go to your
.Ar mbox
file unless they have been deleted, in which case they are discarded.
Unexamined messages go back to the post office (see the
.Fl f
option above).
.Ss Personal and system wide distribution lists
It is also possible to create personal distribution lists so that,
for instance, you can send mail to
.Dq Li cohorts
and have it go
to a group of people.
Such lists can be defined by placing a line like
.Pp
.Dl alias cohorts bill ozalp jkf mark kridle@ucbcory
.Pp
in the file
.Pa .mailrc
in your home directory.
The current list of such aliases can be displayed with the
.Ic alias
command in
.Nm mail .
System wide distribution lists can be created by editing
.Pa /etc/mail/aliases
(see
.Xr aliases 5 ) ;
these are kept in a different syntax.
In mail you send, personal aliases will be expanded in mail sent
to others so that they will be able to
.Ic reply
to the recipients.
System wide aliases
are not expanded when the mail is sent,
but any reply returned to the machine will have the system wide
alias expanded as all mail goes through an MTA.
.Ss Recipient address specifications
Recipient addresses (any of the
.Dq To ,
.Dq Cc
or
.Dq Bcc
header fields) are subject to expansion when the
.Ic expandaddr
option is set.
.Pp
An address may be expanded as follows:
An address that starts with a pipe character is treated as a command to run. The command immediately following the is executed with the message as its standard input.

An address that starts with a character is treated as a folder.

An address that contains a character but no &!, or @ characters is also treated as a folder.

If none of the above apply, the recipient is treated as a local or network mail address.

If the option is not set (the default), no expansion is performed and the recipient is treated as a local or network mail address.

(Adapted from the Mail Reference Manual.)

Each command is typed on a line by itself, and may take arguments following the command word. The command need not be typed in its entirety (the first command which matches the typed prefix is used. For commands which take message lists as arguments, if no message list is given, then the next message forward which satisfies the command's requirements is used. If there are no messages forward of the current message, the search proceeds backwards, and if there are no good messages at all, types and
aborts the command.

.Bl -tag -width delete

.It Ic -
Print out the preceding message.
If given a numeric argument
.Ar n ,
goes to the
.Ar n Ns th
previous message and prints it.

.It Ic \\&=
Prints the currently selected message number.

.It Ic \\&?
Prints a brief summary of commands.

.It Ic \\!
Executes the shell
(see
.Xr sh 1
and
.Xr csh 1 )
command which follows.

.It Ic alias
.Pq Ic a
With no arguments, prints out all currently defined aliases.
With one argument, prints out that alias.
With more than one argument, creates a new alias or changes an old one.

.It Ic alternates
.Pq Ic alt
The
.Ic alternates
command is useful if you have accounts on several machines.
It can be used to inform
.Nm mail
that the listed addresses are really you.
When you
.Ic reply
to messages,
.Nm mail
will not send a copy of the message to any of the addresses
listed on the
.Ic alternates
list.
If the
.Ic alternates
command is given with no argument, the current set of alternate names is displayed.
.It lc chdir
.Pf ( lc cd
or
.lc ch )
Changes the user's working directory to that specified, if given.
If
no directory is given, then changes to the user's login directory.
.lc lc copy
.Pq lc c
The
.lc copy
command does the same thing that
.lc save
does, except that it does not mark the messages it
is used on for deletion when you quit.
.lc lc delete
.Pq lc d
Takes a list of messages as argument and marks them all as deleted.
Deleted messages will not be saved in
.Ar mbox ,
nor will they be available for most other commands.
.lc lc dp
(also
.lc dt )
Deletes the current message and prints the next message.
If there is no next message,
.Nm mail
says
.Dq Li "\&No more messages."
.lc lc edit
.Pq lc e
Takes a list of messages and points the text editor at each one in
turn.
On return from the editor, the message is read back in.
.lc lc exit
.Pf ( lc ex
or
.lc x )
Effects an immediate return to the shell without
modifying the user's system mailbox, his
.Ar mbox
file, or his edit file in
.Fl f .
.lc lc file
.Pq lc fi
The same as
.lc folder .
.lc lc folder
The \texttt{ic} command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read in the new file. Some special conventions are recognized for the name. 

\# means the previous file, \% means your system mailbox, \%user means user's system mailbox, \& means your .Ar mbox file, and +folder means a file in your folder directory.

\texttt{ic folders}
List the names of the folders in your folder directory.

\texttt{ic from}
\texttt{ic f}
Takes a list of messages and prints their message headers.

\texttt{ic headers}
\texttt{ic h}
Lists the current windowful of headers. To view the next or previous group of headers, see the \texttt{ic z} command.

\texttt{ic help}
A synonym for \texttt{ic \&?}.

\texttt{ic hold}
\texttt{ic ho}
\texttt{ic preserve}
Takes a message list and marks each message therein to be saved in the user's system mailbox instead of in .Ar mbox. Does not override the \texttt{ic delete} command.

\texttt{ic ignore}
Add the list of header fields named to the .Ar ignored list. Header fields in the ignore list are not printed on your terminal when you print a message.
This command is very handy for suppression of certain machine-generated header fields.

The .Ic Type and .Ic Print commands can be used to print a message in its entirety, including ignored fields.

If .Ic ignore is executed with no arguments, it lists the current set of ignored fields.

.Ic inc
Incorporate any new messages that have arrived while mail is being read.

The new messages are added to the end of the message list, and the current message is reset to be the first new mail message.

This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.Ic list .Pq Ic l
List the valid .Nm commands.

.Ic mail .Pq Ic m
Takes as argument login names and distribution group names and sends mail to those people.

.Ic mbox .Pq Ic m
Indicate that a list of messages be sent to .Ar mbox in your home directory when you quit.

This is the default action for messages if you do .Em not have the .Ic hold option set.

.Ic more .Pq Ic &mo
Takes a message list and invokes the pager on that list.

.Ic next .Pq Ic n
(like .Ic + or CR)
Goes to the next message in sequence and types it.
With an argument list, types the next matching message.
.space 1.0 .It lc preserve
.space 1.0 .Pq lc pre
.A synonym for
.space 1.0 .It lc hold ,
.space 1.0 .It lc Print
.space 1.0 .Pq lc P
.Like
.space 1.0 .It lc print
.but also prints out ignored header fields.
_SPACE 1.0 See also
.space 1.0 .It lc print ,
.space 1.0 .It lc ignore ,
.space 1.0 and
.space 1.0 .It lc retain .
.space 1.0 .It lc print
.space 1.0 .Pq lc p
.Takes a message list and types out each message on the user's terminal.
.space 1.0 .It lc quit
.space 1.0 .Pq lc q
.Terminates the session, saving all undeleted, unsaved messages in
.space 1.0 the user's
.space 1.0 .Ar mbox
.file in his login directory, preserving all messages marked with
.space 1.0 .It lc hold
.space 1.0 or
.space 1.0 .It lc preserve
.space 1.0 or never referenced
.in his system mailbox, and removing all other messages from his system
.mailbox.
.space 1.0 If new mail has arrived during the session, the message
.space 1.0 .Dq Li "You have new mail"
.is given.
.space 1.0 If given while editing a
.space 1.0 mailbox file with the
.space 1.0 .Fl f
.flag, then the edit file is rewritten.
.A return to the shell is
effected, unless the rewrite of edit file fails, in which case the user
.can escape with the
.space 1.0 .It lc exit
.command.
.space 1.0 .It lc Reply
.space 1.0 .Pq lc R
.Reply to originator.
.Does not reply to other
.space 1.0 recipients of the original message.
.space 1.0 .It lc reply
.Pq Ic r
Takes a message list and sends mail to the sender and all
recipients of the specified message.
The default message must not be deleted.
.It Ic respond
A synonym for
.Ic reply .
.It Ic retain
Add the list of header fields named to the
.Ar retained list .
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
.Ic Type
and
.Ic Print
commands can be used to print a message in its entirety.
If
.Ic retain
is executed with no arguments, it lists the current set of
retained fields.
.It Ic save
.Pq Ic s
Takes a message list and a filename and appends each message in
turn to the end of the file.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
.It Ic saveignore
.Ic saveignore
is to
.Ic save
what
.Ic ignore
is to
.Ic print
and
.Ic type .
Header fields thus marked are filtered out when
saving a message by
.Ic save
or when automatically saving to
.Ar mbox .
.It Ic saveretain
.Ic saveretain
is to
.Ic save
what
Header fields thus marked are the only ones saved with a message when saving by save or when automatically saving to mbox.

cc saveretain overrides cc saveignore.

With no arguments, prints all variable values. Otherwise, sets option.

Arguments are of the form option=value (no space before or after =) or option.

Quotation marks may be placed around any part of the assignment statement to quote blanks or tabs, i.e.,

set indentprefix="->".

Invokes an interactive version of the shell.

Takes a message list and prints out the size in characters of each message.

The command reads commands from a file.

Takes a message list and prints the top few lines of each. The number of lines printed is controlled by the variable toplines and defaults to five.

Identical to the command.


.Pq lc t
A synonym for
 lc print.
 lc unalias
Takes a list of names defined by
 lc alias
commands and discards the remembered groups of users.
The group names
no longer have any significance.
 lc undelete
 lc u
Takes a message list and marks each message as not being deleted.
 lc unread
 lc U
Takes a message list and marks each message as not having been read.
 lc unset
Takes a list of option names and discards their remembered values;
the inverse of
 lc set.
 lc visual
 lc v
Takes a message list and invokes the display editor on each message.
 lc write
 lc w
Similar to
 lc save,
except that
 lc only
the message body
(without the header)
is saved.
Extremely useful for such tasks as sending and receiving source
program text over the message system.
 lc xit
 lc x
A synonym for
 lc exit.
 lc z
 lc z
Present message headers in windowfuls as described under the
 lc headers
command.
You can move
 .Nm mail .Ns 's
attention forward to the next window with the
 lc z
command.
Also, you can move to the previous window by using
Here is a summary of the tilde escapes, which are used when composing messages to perform special functions. Tilde escapes are only recognized at the beginning of lines.

The name .Dq tilde escape is somewhat of a misnomer since the actual escape character can be set by the option .Ic escape .

.Pp
.Bl -tag -width Ds -compact
.It Ic ~b Ns Ar name ...
Add the given names to the list of carbon copy recipients but do not make the names visible in the Cc: line ("blind" carbon copy).

.Pp
.It Ic ~c Ns Ar name ...
Add the given names to the list of carbon copy recipients.

.Pp
.It Ic ~d
Read the file .Pa dead.letter from your home directory into the message.

.Pp
.It Ic ~e
Invoke the text editor on the message collected so far. After the editing session is finished, you may continue appending text to the message.

.Pp
.It Ic ~F Ns Ar messages
Identical to .Ic ~f , except all message headers are included.

.Pp
.It Ic ~f Ns Ar messages
Read the named messages into the message being sent. If no messages are specified, read in the current message. Message headers currently being ignored (by the .Ic ignore or .Ic retain command) are not included.

.Pp
.It Ic ~h
Edit the message header fields by typing each one in turn and allowing
the user to append text to the end or modify the field by using the
current terminal erase and kill characters.

.Pp
.It lc ~M Ns Ar messages
Identical to
.lc ~m ,
except all message headers are included.

.Pp
.It lc ~m Ns Ar messages
Read the named messages into the message being sent, indented by a
tab or by the value of
.va indentprefix .
If no messages are specified,
read the current message.
Message headers currently being ignored (by the
.lc ignore
or
.lc retain
command) are not included.

.Pp
.It lc ~p
Print out the message collected so far, prefaced by the message header
fields.

.Pp
.It lc ~q
Abort the message being sent, copying the message to
.pa dead.letter
in your home directory if
.lc save
is set.

.Pp
.It lc ~r Ns Ar filename
.It lc ~< Ns Ar filename
Read the named file into the message.

.Pp
.It lc ~s Ns Ar string
Cause the named string to become the current subject field.

.Pp
.It lc ~t Ns Ar name ...
Add the given names to the direct recipient list.

.Pp
.It lc ~v
Invoke an alternate editor (defined by the
.ev VISUAL
option) on the
message collected so far.
Usually, the alternate editor will be a
screen editor.
After you quit the editor, you may resume appending
text to the end of your message.

\.Pp
\.It \lc ~w Ns Ar filename
Write the message onto the named file.
\.Pp
\.It \lc ~x
Abort the message being sent.
No message is copied to
\.Pa \~/dead.letter ,
even if
\.lc save
is set.
\.Pp
\.It \lc ~?
Prints a brief summary of tilde escapes.
\.Pp
\.It \lc ~! Ns Ar command
Execute the indicated shell command, then return to the message.
\.Pp
\.It \lc ~| Ns Ar command
Pipe the message through the command as a filter.
If the command gives
no output or terminates abnormally, retain the original text of the
message.
The command
\.Xr fmt 1
is often used as
\.lc command
to rejustify the message.
\.Pp
\.It \lc ~: Ns Ar mail-command
\.It \lc ~_ Ns Ar mail-command
Execute the given mail command.
Not all commands, however, are allowed.
\.Pp
\.It \lc ~~ Ns Ar string
Insert the string of text in the message prefaced by a single ~.
If
you have changed the escape character, then you should double
that character in order to send it.
\.Pp
\.It \lc ~.
Simulate end of file on input.
\.El
\.Ss Mail options
A number of options can be set in the
.Pa .mailrc
file to alter the behavior of
.Nm ,
controlled via the
.Ic set
and
.Ic unset
commands.
Options may be either binary, in which case it is only
significant to see whether they are set or not; or string, in which
case the actual value is of interest.
The binary options include the following:
.BI -tag -width append
 .It Ar append
Causes messages saved in
 .Ar mbox
to be appended to the end rather than prepended.
This should always be set (perhaps in
 .Pa /etc/mail.rc ) .
 .It Ar ask , asksub
Causes
 .Nm mail
to prompt you for the subject of each message you send.
If
you respond with simply a newline, no subject field will be sent.
 .It Ar askbcc
Causes you to be prompted for additional blind carbon copy recipients at the
end of each message.
Responding with a newline indicates your
satisfaction with the current list.
 .It Ar askcc
Causes you to be prompted for additional carbon copy recipients at the
end of each message.
Responding with a newline indicates your
satisfaction with the current list.
 .It Ar autoinc
Causes new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the
 .Ic inc
command at each prompt, except that the current message is not
reset when new mail arrives.
 .It Ar autoprint
Causes the
 .Ic delete
command to behave like
 .Ic dp ;
thus, after deleting a message, the next one will be typed
automatically.
Setting the binary option \texttt{debug} is the same as specifying \texttt{debug} on the command line and causes \texttt{mail} to output all sorts of information useful for debugging.

The binary option \texttt{dot} causes \texttt{mail} to interpret a period alone on a line as the terminator of a message you are sending.

Causes \texttt{mail} to expand message recipient addresses, as explained in the section \texttt{Recipient address specifications}.

Causes \texttt{mail} to use the specified sender address in the \texttt{From:} field of the message header. A stripped down version of the address is also used in the message envelope. If unset, the message will not include an explicit sender address and a default value will be added by the MTA, typically \texttt{user@host}.

This value can be overridden by specifying the \texttt{r} flag on the command line.

This option is used to hold messages in the system mailbox by default.

Causes interrupt signals from your terminal to be ignored and echoed as @’s.

An option related to \texttt{dot} is \texttt{ignoreeof} which makes \texttt{mail} refuse to accept a control-D as the end of a message.
Ar ignoreeof
also applies to
Nm mail
command mode.
It Ar keep
Setting this option causes
Nm
to truncate your system mailbox instead of deleting it
when it's empty.
It Ar keepsave
Messages saved with the
Ic save
command are not normally saved in
Ar mbox
at quit time.
Use this option to retain those messages.
It Ar metoo
Usually, when a group is expanded that contains the sender, the sender
is removed from the expansion.
Setting this option causes the sender
to be included in the group.
It Ar noheader
Setting the option
Ar noheader
is the same as giving the
Fl N
flag on the command line.
It Ar nosave
Normally, when you abort a message with two interrupt characters
(usually control-C),
Nm mail
copies the partial letter to the file
Pa dead.letter
in your home directory.
Setting the binary option
Ar nosave
prevents this.
It Ar quiet
Suppresses the printing of the version when first invoked.
It Ar Replyall
Reverses the sense of
Ic reply
and
Ic Reply
commands.
It Ar searchheaders
If this option is set, then a message-list specifier in the form
Dq /x:y
will expand to all messages containing the substring
.

in the header
.

The string search is case insensitive.
If
.

is omitted, it will default to the
.

header field.
The form
.

is a special case, and will expand
to all messages containing the substring
.

in the
.

or
.

header fields.
The check for
.

is case sensitive, so that
.

can be used to limit the search for
.

to just the
.

field.
.

Don't send messages with an empty body.
.

Setting the option
.

is the same as using the
.

flag on the command line.
When
.

runs in verbose mode,
the actual delivery of messages is displayed on the user's
terminal.
.

Option string values
.

EDITOR
Pathname of the text editor to use in the .Ic edit command and .Ic ~e escape.
If not defined, .Pa /usr/bin/ex is used.

.It Ev LISTER
Pathname of the directory lister to use in the .Ic folders command.
Default is .Pa /bin/ls .

.It Ev MBOX
The name of the .Ar mbox file.
It can be the name of a folder.
The default is .Dq Li mbox in the user's home directory.

.It Ev PAGER
Pathname of the program to use in the .Ic more command or when the .Ar crt variable is set.
The default paginator .Xr more 1 is used if this option is not defined.

.It Ev SHELL
Pathname of the shell to use in the .Ic !& command and the .Ic ~!& escape.
A default shell is used if this option is not defined.

.It Ev VISUAL
Pathname of the text editor to use in the .Ic visual command and .Ic ~v escape.
If not defined, .Pa /usr/bin/vi is used.
The valued option

is used as a threshold to determine how long a message must be before

is used to read it.

If

is set without a value,
then the height of the terminal screen stored in the system is used to compute the threshold (see

If defined, the first character of this option gives the character to use in the place of ~ to denote escapes.

The name of the directory to use for storing folders of messages.

If this name begins with a

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

String used by the
tilde escape for indenting messages, in place of the normal tab character

Be sure to quote the value if it contains spaces or tabs.

If defined, gives the pathname of the file used to record all outgoing mail.

If not defined, then outgoing mail is not so saved.

Size of window of message headers for

Pathname to an alternative mail delivery system.

If defined, gives the number of lines of a message to be printed out with the command; normally, the first five lines are printed.

ENVIRONMENT

mail
utilizes the
.Ev HOME ,
.Ev LOGNAME ,
.Ev MAIL ,
.Ev MAILRC ,
and
.Ev USER
environment variables.
.Pp
If the
.Ev MAIL
environment variable is set, its value is used as the path to the
user's mail spool.
.Sh FILES
.Bl -tag -width /usr/share/misc/mail.*help -compact
 .It Pa /var/mail/*
post office (unless overridden by the
.Ev MAIL
environment variable)
 .It Pa ~/mbox
user's old mail
 .It Pa ~/.mailrc
file giving initial mail commands; can be overridden by setting the
.Ev MAILRC
environment variable
 .It Pa /tmp/R*
temporary files
 .It Pa /usr/share/misc/mail.*help
help files
 .It Pa /etc/mail.rc
system initialization file
 .El
.Sh EXIT STATUS
.Ex -std mail
.Sh SEE ALSO
.Xr fmt 1 ,
.Xr lockspool 1 ,
.Xr vacation 1 ,
.Xr aliases 5 ,
.Xr mail.local 8 ,
.Xr newaliases 8 ,
.Xr sendmail 8 ,
.Xr smtpd 8
.Sh STANDARDS
The
.Nm mailx
utility is compliant with the
.St -p1003.1-2008
specification.

The flags are marked by as being optional.

The flags are marked by as being optional, and are not supported by this implementation of.

The flags are extensions to the specification.

A command appeared in.

This man page is derived from the "Mail Reference Manual" originally written by Kurt Shoens.

Usually, and are just links to , which can be confusing.

Mail Command

```
t [message list]type message(s).
more [message list]read message(s), through the $PAGER
go to and type next message.
e [message list]edit message(s).
f [message list]give head lines of messages.
d [message list]delete message(s).
s [message list] <file> append message(s) to file.
u [message list] undelete message(s).
R [message list] reply to message sender(s).
r [message list] reply to message sender(s) and all recipients.
p [message list] print message list.
```
pre [message list] make messages go back to /var/mail.
m <recipient list> mail to specific recipient(s).
qu, quit, saving unresolved messages in mbox.
xquit, do not remove system mailbox.
hprint out active message headers.
!shell escape.
| [msglist] command|pipe message(s) to shell command.
pi [msglist] command|pipe message(s) to shell command.
cd [directory] chdir to directory or home if none given
fi <file> switch to file (%=system inbox, %user=user's
  system inbox). + searches in your folder
directory for the file.
set variable[=value] set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or
  user names separated by spaces. If omitted, Mail uses the current message.
The pipe command doesn't accept user names or subject message list, since
  that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by
  spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user
  (specified user's system inbox), # (previous file), & (mbox file), or an
  expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.
--------------------------------------------------------------------------
The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~/. file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Execute a Mail command.
~:_command Execute a Mail command.

-------------------------------------------------------------------------------
Mail provides a simple and friendly environment for sending and receiving mail. It divides incoming mail into its constituent messages and allows the user to deal with them in any order. In addition, it provides a set of ed-like commands for manipulating messages and sending mail.

Mail offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally,
is able to send and receive messages across such networks as the ARPA
NET, UUCP, and Berkeley network.

This document describes how to use the Mail
program to send and receive messages. The reader is not assumed to
be familiar with other message handling systems, but should be
familiar with the \s-2UNIX\s0**

\(f
** \s-1UNIX\s0 is a trademark of Bell Laboratories.
\)

shell, the text editor, and some of the common \s-2UNIX\s0 commands.

quote "The \s-2UNIX\s0 Programmer's Manual,"

quote "An Introduction to Csh,"

and

quote "Text Editing with Ex and Vi"
can be consulted for more information on these topics.

A word of explanation is in order here concerning the name Mail:
the original UNIX mail program was known as /bin/mail.
The BSD mail program was called Mail
to differentiate it from the older mail program.

/bin/mail
is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as
/usr/bin/mail;
/usr/bin/Mail
is simply a link for backwards compatibility.
To further confuse the issue, a second link was retained for compatibility with SystemV systems,
mailx.
In this document, we use the original name, `Mail',
to refer to any of these.

Here is how messages are handled:
the mail system accepts incoming messages
for you from other people
and collects them in a file, called your "system mailbox".

When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a
user, you will be notified when new mail arrives if you inform
the shell of the location of your mailbox. On OpenBSD,
your system mailbox is located in the directory /var/mail
in a file with your login name. If your login name is
.q sam,
then you can make
.i csh
notify you of new mail by including the following line in your .cshrc
file:
.i
set mail=/var/mail/sam
.i
When you read your mail using
.i Mail,
it reads your system mailbox and separates that file into the
individual messages that have been sent to you. You can then
read, reply to, delete, or save these messages.
Each message is marked with its author and the date they sent it.
#OpenBSD: Makefile,v 1.4 2004/02/01 15:19:57 jmc Exp $
#@(#)Makefile8.1 (Berkeley) 6/8/93

DIR=usr/07.mail
SRCS=mail0.nr mail1.nr mail2.nr mail3.nr mail4.nr mail5.nr mail6.nr \ mail7.nr mail8.nr mail9.nr maila.nr
MACROS=-me

paper.ps: ${SRCS}
$[TBL] ${SRCS} | ${ROFF} > ${.TARGET}

paper.txt: ${SRCS}
$[TBL] ${SRCS} | ${ROFF} -Tascii > ${.TARGET}

.include <bsd.doc.mk>
"OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
"©
"The Regents of the University of California. All rights reserved.
"
"Redistribution and use in source and binary forms, with or without
"modification, are permitted provided that the following conditions
"are met:
"1. Redistributions of source code must retain the above copyright
"notice, this list of conditions and the following disclaimer.
"2. Redistributions in binary form must reproduce the above copyright
"notice, this list of conditions and the following disclaimer in the
"documentation and/or other materials provided with the distribution.
"3. Neither the name of the University nor the names of its contributors
"may be used to endorse or promote products derived from this software
"without specific prior written permission.
"
The `Mail` command has two distinct usages, according to whether one wants to send or receive mail. Sending mail is simple: to send a message to a user whose login name is, say, `root`, use the shell command:

```
% Mail root
```

then type your message. When you reach the end of the message, type an EOT (Control-D) at the beginning of a line, which will cause `Mail` to echo `EOT` and return you to the Shell. When the user you sent mail to next logs in, he will receive the message:

```
You have mail.
```

to alert him to the existence of your message.

If, while you are composing the message you decide that you do not wish to send it after all, you can abort the letter with a `<Control-C>`. Typing a single `<Control-C>` causes `Mail` to print

```
(Interrupt -- one more to kill letter)
```

Typing a second `<Control-C>` causes
Mail

to save your partial letter on the file
.q dead.letter
in your home directory and abort the letter.
Once you have
sent mail to someone, there is no way to undo the act, so be
careful.
.pp
The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.
.pp
If you want to send the same message to several other people, you can list
their login names on the command line.
Thus,
% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
<Control-D>
EOT
%
>l
will send the reminder to sam, bob, and john.
.pp
If, when you log in, you see the message,
% Mail
You have mail.
>l
you can read the mail by typing simply:
% Mail
>l
Mail
will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await
your command. The messages are assigned numbers starting with 1 \*-- you
refer to the messages with these numbers.
Mail
keeps track of which messages are
new
(have been sent since you last read your mail) and
read
(have been read by you). New messages have an
N
next to them in the header listing and old, but unread messages have
U
next to them.

Mail keeps track of new/old and read/unread messages by putting a header field called Status into your messages.

To look at a specific message, use the type command, which may be abbreviated to simply t.

For example, if you had the following messages:

```
N 1 root     Wed Sep 21 09:21  "Tuition fees"
N 2 sam     Tue Sep 20 22:55
```

you could examine the first message by giving the command:

```
t 1
```

which might cause

Mail to respond with, for example:

```
Message 1:
From root Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday. Don't forget!!
```

Many Mail commands that operate on messages take a message number as an argument like the type command. For these commands, there is a notion of a current message. When you enter the Mail program, the current message is initially the first one. Thus, you can often omit the message number and use, for example,

```
t
```

to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence,
would type the first message.

Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in

by simply typing a newline. As a special case, you can type a newline as your first command to

to type the first message.

If, after reading a message, you wish to immediately send a reply, you can do so with the

command.

like

takes a message number as an argument.

then begins a message addressed to the user who sent you the message. You may then type in your letter in reply, followed by a <Control-D> at the beginning of a line, as before.

will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:

reply

responds by typing:

To: root
Subject: Re: Tuition fees

and waiting for you to enter your letter.

You are now in the message collection mode described at the beginning of this section and

will gather up your message up to a <Control-D>.

Note that it copies the subject header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.

For example, if the letter had a
header listing several recipients, 

Mail would arrange to send your reply to the same people as well. Similarly, if the original message contained a

Mail would send your reply to those users, too. Mail is careful, though, not to send the message to you, even if you appear in the or field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with Mail might look like the following:

reply To: root Subject: Tuition fees

Thanks for the reminder
EOT & 
(1
.

The command is especially useful for sustaining extended conversations over the message system, with other users receiving copies of the conversation. The command can be abbreviated to 

Sometimes you will receive a message that has been sent to several people and wish to reply only to the person who sent it.
.b Reply
with a capital
.R
replies to a message, but sends a copy to the sender only.
.p
If you wish, while reading your mail, to send a message to someone, 
but not as a reply to one of your messages, you can send the message 
directly with the
.m
command, which takes as arguments the names of the recipients you wish 
to send to. For example, to send a message to
.q frank,
you would do:
.l
mail frank
This is to confirm our meeting next Friday at 4.
EOT
&
.l
The
.m
command can be abbreviated to
.m
Normally, each message you receive is saved in the file
.i mbox
in your login directory at the time you leave
.i Mail.
Often, 
however, you will not want to save a particular message you 
have received because it is only of passing interest. To avoid 
saving a message in
.i mbox
you can delete it using the
.m
command. In our example,
.l
delete 1
.l
will prevent
.i Mail
from saving message 1 (from root) in
.i mbox.
In addition to not saving deleted messages,
.i Mail
will not let 
you type them, either. The effect is to make the message disappear 
altogether, along with its number. The
.b delete
command can be abbreviated to simply
.b d.
.pp
Many features of
.i Mail
can be tailored to your liking with the
.b set
command. The
.b set
command has two forms, depending on whether you are setting
a
.i binary
option or a
.i valued
option.
Binary options are either on or off. For example, the
.q ask
option informs
.i Mail
that each time you send a message, you want it to prompt you for
a subject header, to be included in the message.
To set the
.q ask
option, you would type
.(l
set ask
.)l
.pp
Another useful
.i Mail
option is
.q hold.
Unless told otherwise,
.i Mail
moves the messages from your system mailbox to the file
.i mbox
in your home directory when you leave
.i Mail.
If you want
.i Mail
to keep your letters in the system mailbox instead, you can set the
.q hold
option.
.pp
Valued options are values which
.i Mail
uses to adapt to your tastes. For example, the
.q SHELL
Mail option tells
which shell you like to use, and is specified by
.set SHELL=/bin/csh

for example. Note that no spaces are allowed in
"SHELL=/bin/csh."
A complete list of the
Mail options appears in section 5.

Another important valued option is
.q crt.
If you use a fast video terminal, you will find that when you
print long messages, they fly by too quickly for you to read them.
With the
.q crt
Mail option, you can make
Mail print any message larger than a given number of lines by sending
it through a paging program. This program is specified by the
valued option \BPAGER\P.
If \BPAGER\P is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
.set crt=24
to paginate messages that will not fit on their screens.
In the default state, \more\P (default paginator) prints a screenful of
information, then types `byte XXX', where `XXX' represents the number
of bytes paginated.
Type a space to see the next screenful.

Another adaptation to user needs that
Mail provides is that of
Mail aliases.
An alias is simply a name which stands for one or more
real user names.
Mail sent to an alias is really sent to the list of real users
associated with it. For example, an alias can be defined for the
members of a project, so that you can send mail to the whole project
by sending mail to just a single name. The
Mail alias command in
Mail defines an alias. Suppose that the users in a project are named Sam, Sally, Steve, and Susan. To define an alias called project for them, you would use the command:

```
alias project sam sally steve susan
```

The alias command can also be used to provide a convenient name for someone whose user name is inconvenient. For example, if a user named "Bob Anderson" had the login name "anderson," you might want to use:

```
alias bob anderson
```

so that you could send mail to the shorter name, bob.

While the alias and set commands allow you to customize Mail, they have the drawback that they must be retyped each time you enter Mail. To make them more convenient to use, Mail always looks for two files when it is invoked. It first reads a system wide file

```
/etc/mail.rc
```

then a user specific file,

```
.mailrc
```

which is found in the user's home directory. The system wide file is maintained by the system administrator and contains set commands that are applicable to all users of the system. The

```
.mailrc
```

file is usually used by each user to set options the way he likes.
and define individual aliases.  
For example, my .mailrc file looks like this:
```
set ask nosave SHELL=/bin/csh
```
As you can see, it is possible to set many options in the same `set` command. The `nosave` option is described in section 5.

Mail aliasing is implemented at the system-wide level by the mail delivery system `sendmail`. These aliases are stored in the file `/etc/mail/aliases` and are accessible to all users of the system. The lines in `/etc/mail/aliases` are of the form:
```
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>
```
where `alias` is the mailing list name and the `name\*<i\*>` are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command `newaliases` (as superuser) after editing `/etc/mail/aliases` since the delivery system uses an indexed file created by `newaliases`.

We have seen that `Mail` can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the `rb -f` flag on the command line causes `Mail` to read messages from a file other than your system mailbox. For example, if you have a collection of messages in the file
you can use `Mail` to read them with:

```
% Mail -f letters
```

You can use all the `Mail` commands described in this document to examine, modify, or delete messages from your `letters` file, which will be rewritten when you leave `Mail` with the `quit` command described below.

Since mail that you read is saved in the file `mbox` in your home directory by default, you can read `mbox` in your home directory by using simply:

```
% Mail -f
```

Normally, messages that you examine using the `type` command are saved in the file `mbox` in your home directory if you leave `Mail` with the `quit` command described below.

If you wish to retain a message in your system mailbox you can use the `preserve` command to tell `Mail` to leave it there.

The `preserve` command accepts a list of message numbers, just like `type` and may be abbreviated to
Messages in your system mailbox that you do not examine are
normally retained in your system mailbox automatically.
If you wish to have such a message saved in
your mailbox
without reading it, you may use the
command to have them so saved. For example,
(.l
mbox 2
.)l
in our example would cause the second message (from sam)
to be saved in
your mailbox
when the
command is executed.
is also the way to direct messages to your
mailbox file if you have set the
hold option described above.
can be abbreviated to
Mbox
can be abbreviated to
Mbox
is also the way to direct messages to your
mailbox file if you have set the
hold option described above.
can be abbreviated to
Mbox

When you have perused all the messages of interest, you can leave
with the
command, which saves the messages you have typed but not
deleted in the file
in your login directory. Deleted messages are discarded irretrievably,
and messages left untouched are preserved in your system mailbox so
that you will see them the next time you type:
(.l
% Mail
.)l
The
command can be abbreviated to simply
quit
If you wish for some reason to leave
Mail
quickly without altering either your system mailbox or
.i mbox,
you can type the
.b x
command (short for
.b exit),
which will immediately return you to the Shell without changing anything.
.pp
If, instead, you want to execute a Shell command without leaving
.i Mail,
you can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:
.(1
!date
)1
will print the current date without leaving
.i Mail.
.pp
Finally, the
.b help
command is available to print out a brief summary of the
.i Mail
commands, using only the single character command abbreviations.
This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Several Mail commands accept a list of messages as an argument. Along with
and delete, described in section 2, there is the from command, which prints the message headers associated with the message list passed to it. The from command is particularly useful in conjunction with some of the message list features described below.

A "message list" consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters

- "^", 
- ".", or 
- "$"

to specify the first relevant, current, or last relevant message, respectively.

Relevant here means, for most commands

- "not deleted"
and
- "deleted"
for the undelete command.

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash. Thus, to print the first four messages, use

```
(type 1-4)
```

and to print all the messages from the current message to the last message, use

```
(type .-$)
```

.name
is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by user root, do:

```
(type root
)
```

As a shorthand notation, you can specify simply

```
(type *
)
```

prints all undeleted messages,

```
(delete *
)
```

deletes all undeleted messages, and

```
(undelete *
)
```

undeletes all deleted messages.

You can search for the presence of a word in subject lines with

```
(b /
)
```

For example, to print the headers of all messages that contain the word PASCAL, do:

```
(from /pascal
)
```

Note that subject searching ignores upper/lower case differences.

This section describes all the Mail commands available when
receiving mail.

The \texttt{\textbackslash .rb \-} command goes to the previous message and prints it. The \texttt{\textbackslash .rb \-} command may be given a decimal number \texttt{\textbackslash in} as an argument, in which case the \texttt{\textbackslash in} th previous message is gone to and printed.

Prints a brief summary of commands.

Used to preface a command to be executed by the shell.

Like \texttt{\textbackslash b print}, but also print out ignored header fields. See also \texttt{\textbackslash Bprint\textbackslash fP}, \texttt{\textbackslash Bignore\textbackslash fP}, and \texttt{\textbackslash Bretain\textbackslash fP}.

\texttt{\textbackslash BPrint\textbackslash fP} can be abbreviated to \texttt{\textbackslash BP\textbackslash fP}.

Note the capital \texttt{\textbackslash BR\textbackslash fP} in the name.

Frame a reply to one or more messages.

The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).

You can add people using the \texttt{\textbackslash B\texttilde t\textbackslash fP}, \texttt{\textbackslash B\texttilde c\textbackslash fP}, and \texttt{\textbackslash B\texttilde b\textbackslash fP} tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with \texttt{\textquote Re:} unless it already began thus.

If the original message included a \texttt{\textquote reply-to} header field, the reply will go \texttt{\textquote only} to the recipient named by \texttt{\textquote reply-to}.

You type in your message using the same conventions available to you through the \texttt{\textbackslash b mail} command. The \texttt{\textbackslash b Reply} command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to
send a message to the originator. Use it often.

\texttt{\textbf{Reply}} (and \texttt{\textbf{Respond}}) can be abbreviated to \texttt{\textbf{R}}.

\texttt{\textbf{Type}} can be abbreviated to \texttt{\textbf{T}}.

\texttt{\textbf{alias}} \texttt{project john sue willie kathryn}
\texttt{\textbf{project}}
which expands to the four people John, Sue, Willie, and Kathryn.

If no arguments are given, all currently-defined aliases are printed.
If one argument is given, that alias is printed (if it exists).

\texttt{\textbf{Alternates}} can be abbreviated to \texttt{\textbf{alt}}.

\texttt{\textbf{chdir}}
command allows you to change your current directory.

.b Chdir
takes a single argument, which is taken to be the pathname of
the directory to change to. If no argument is given,
.b chdir
changes to your home directory.

.fBChdir\fP can be abbreviated to \fBc\fP.

.ip "\fBcopy\fP" The
.b copy
command does the same thing that
.b save
does, except that it does not mark the messages it is used on
for deletion when you quit.

.fBCopy\fP can be abbreviated to \fBco\fP.

.ip "\fBdelete\fP" Deletes a list of messages. Deleted messages can be reclaimed
with the
.b undelete
command.

.fBDelete\fP can be abbreviated to \fBd\fP.

.ip "\fBdp\fP or \fBdt\fP" These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, \fIMail\fP says \fI``No more messages.\fI

.ip "\fBedit\fP" To edit individual messages using the text editor, the
.b edit
command is provided. The
.b edit
command takes a list of messages as described under the
.b type
command and processes each by writing it into the file
Message\c
.i x
where
.i x
is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message
out and quit, upon which
.i Mail
will read the message back and remove the file.

.b Edit
can be abbreviated to
.b e .

.ip "\fBelse\fP" Marks the end of the then-part of an
.b if statement and the beginning of the part to take effect if the condition of the .b if statement is false.
.ip "\fBendif\fP " Marks the end of an .b if statement.
.ip "\fBexit\fP or \fBxit\fP " Leave .i Mail without updating the system mailbox or the file you were reading. Thus, if you accidentally delete several messages, you can use .b exit to avoid scrambling your mailbox. \fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.
.ip "\fBfile\fP " The same as .b folder .
.ip "\fBFile\fP " can be abbreviated to \fBfi\fP.
.ip "\fBfolders\fP " List the names of the folders in your folder directory.
.ip "\fBfolder\fP " The .b folder command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file. Some special conventions are recognized for the name:
 .b .b
 .TS center;
 .c c
 .l a.
 Name Meaning
 _
 #Previous file read
 %Your system mailbox
 %name\fIName\fP's system mailbox
 &Your ~/mbox file
 +folderA file in your folder directory
 .TE
 .b
 \fBfolder\fP can be abbreviated to \fBfo\fP.
 .ip "\fBfrom\fP " The
command takes a list of messages and prints out the header lines for each one; hence (.l from joe .l)
is the easy way to display all the message headers from \*{\*lqjoe.*q} \*{\*FFrom}\*{\*P} can be abbreviated to \*{\*Ff}\*{\*P}.
\*{\*Fip} \*{\*fheaders\*P} When you start up \*{\*i Mail} to read your mail, it lists the message headers that you have. These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the \*{\*q }"Subject:" header field of each message, if present. In addition, \*{\*i Mail} tags the message header of each message that has been the object of the \*{\*b} preserve command with a \*{\*q }P. Messages that have been \*{\*b} saved or \*{\*b} written are flagged with a \*{\*q }*.
Finally, \*{\*b} deleted messages are not printed at all. If you wish to reprint the current list of message headers, you can do so with the \*{\*b} headers command. The \*{\*b} headers command (and thus the initial header listing) only lists the first so many message headers. The number of headers listed depends on the speed of your terminal. \*{\*i Mail} maintains a notion of the current \*{\*q }window into your messages for the purposes of printing headers. Use the \*{\*b} z \*{\*b} command to move forward a window, and \*{\*b} z-
to move back a window.
You can move
.i Mail's
notion of the current window directly to a particular message by
using, for example,
.i
headers 40
.i

to move
.i Mail's
attention to the messages around message 40.
.fBHeaders\fP can be abbreviated to \fBh\fP.
.i
"fBhelp\fP"
Print a brief and usually out of date help message about the commands
in
.i Mail.
The
.i man
page for
.i mail
is usually more up-to-date than either the help message or this manual.
It is also a synonym for \fB?\fP.
.i
"fBhold\fP"
Arrange to hold a list of messages in the system mailbox, instead
of moving them to the file
.i mbox
in your home directory. If you set the binary option
.i hold,
this will happen by default.
It does not override the \fBdelete\fP command.
.fBHold\fP can be abbreviated to \fBho\fP.
.i
"fBif\fP"
Commands in your
.q .mailrc
file can be executed conditionally depending on whether you are
sending or receiving mail with the
.b if
command. For example, you can do:
.i
if receive
\fCcommands\fP...
endif
.i
An
.b else
form is also available:
.i
if send
commands... else commands... endif

Note that the only allowed conditions are receive and send.

ignore

N.B.: Ignore has been superseded by retain.

Add the list of header fields named to the "ignore list". Header fields in the ignore list are not printed on your terminal when you print a message. This allows you to suppress printing of certain machine-generated header fields, such as Via which are not usually of interest. The Type and Print commands can be used to print a message in its entirety, including ignored fields.

If ignore is executed with no arguments, it lists the current set of ignored fields.

inc Incorporate any new messages that have arrived while mail is being read. The new messages are added to the end of the message list, and the current message is reset to be the first new mail message. This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

list List the valid Mail commands. 

local Define a list of local names for this host. This command is useful when the host is known by more than one name. Names in the list may be qualified by the domain of the host. The first name on the local list is the distinguished name of the host.
The names on the local list are used by Mail to decide which addresses are local to the host. For example:

```
 local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \n    arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \n    ucb-arpa.ARPA
```

From this list we see that "fred@ucbarpa.BERKELEY.ARPA", "harold@arpa.BERKELEY", and "larry@r" are all addresses of users on the local host. The local command is usually not used by general users since it is designed for local configuration; it is usually found in the file /usr/lib/Mail.rc.

Send mail to one or more people. If you have the ask option set, Mail will prompt you for a subject to your message. Then you can type in your message, using tilde escapes as described in section 4 to edit, print, or modify your message. To signal your satisfaction with the message and send it, type <Control-D> at the beginning of a line, or a . alone on a line if you set the option dot. To abort the message, type two interrupt characters (Control-C by default) in a row or use the ~q or ~x escapes.

The \Bmail\F command can be abbreviated to \Bm\F.

Indicate that a list of messages be sent to mbox in your home directory when you quit. This is the default action for messages if you do not have the hold option set.

Takes a message list and invokes the pager on that list.
The `.b next` command goes to the next message and types it. If given a message list, `.b next` goes to the first such message and types it. Thus, `.l
next root
`)l
`goes to the next message sent by `.q root` and types it. The `.b next` command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters `.q "^"`
`.q "."
.or
`.q "$".
Thus, `.l
\&.
`)l
prints the current message and `.l
4
`)l
prints message 4, as described previously. `.BNest` can be abbreviated to `.Bn`. `.ip "fBpresolve\fP\ "`

Same as `.b hold`. Cause a list of messages to be held in your system mailbox when you quit. `.BPreserve` can be abbreviated to `.Bpre`. `.ip "fBprint\fP\ "`

Print the specified messages. If the `.b crt` variable is set, messages longer than the number of lines it indicates are paged through the command specified by the `.BPAGER` variable. The `.Bprint` command can be abbreviated to `.Bp`. `.ip "fBquit\fP\ "`

Terminates the session, saving all undeleted, unsaved and unwritten messages in the user's `.Imbox` file in their login directory (messages marked as having been read), preserving all messages marked with `.Bhold` or `.Bpreserve` or never referenced in their system mailbox.
Any messages that were deleted, saved, written, or saved to `.Imbox` are
removed from their system mailbox.
If new mail has arrived during the session, the message
``You have new mail'' is given. If given while editing a mailbox file
with the \fB-f\fP flag, then the edit file is rewritten.
A return to the Shell is effected, unless the rewrite of edit file fails,
in which case the user can escape with the \fBexit\fP command.
\fBQuit\fP can be abbreviated to \fBq\fP.
.Frame a reply to a single message.
The reply will be sent to the
person who sent you the message (to which you are replying), plus all
the people who received the original message, except you. You can
add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP
tilde escapes. The subject in your reply is formed by prefacing the
subject in the original message with
\q "Re:"
unless it already began thus.
If the original message included a
\q "reply-to"
header field, the reply will go
.\i only
to the recipient named by
\q "reply-to."
You type in your message using the same conventions available to you
through the
.\b mail
command.
The \fBreply\fP and \fBrespond\fP command can be abbreviated to \fBr\fP.
.Frame the list of header fields named to the \fIretained list\fP.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
.\b Type
and
.\b Print
commands can be used to print a message in its entirety.
If
.\b retain
is executed with no arguments, it lists the current set of
retained fields.
.Frame
It is often useful to be able to save messages on related topics
in a file. The
.\b save
command gives you the ability to do this. The
.\b save
command takes as an argument a list of message numbers, followed by the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there. The filename in quotes, followed by the line count and character count is echoed on the user’s terminal.

An example of the .b save command relative to our running example is:

```
.(!
s 1 2 tuitionmail
.(!
.b Saved
```

Messages are not automatically saved in .i mbox at quit time, nor are they selected by the .b next command described above, unless explicitly specified.

`.BSave` can be abbreviated to `.Bs`.


Header fields thus marked are filtered out when saving a message by `.Bsave` or when automatically saving to `.Imbox`.


Header fields thus marked are the only ones saved with a message when saving by `.Bsave` or when automatically saving to `.Imbox`.


Set an option or give an option a value. Used to customize .i Mail.

Section 5.3 contains a list of the options. Options can be .i binary, in which case they are .i on or .i off, or .i valued.

To set a binary option .i option .i on, do .(l
.set option
)l
To give the valued option
   .i option
   the value
   .i value ,
   do
   .(1
   set option=value
   .)1
There must be no space before or after the ``='' sign.
If no arguments are given, all variable values are printed.
Several options can be specified in a single
   .b set
command.
\fBSet\fP can be abbreviated to \fBse\fP.
   .ip "\fBshell\fP\ \ "
The
   .b shell
command allows you to
escape to the shell.
   .b Shell
invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
   .i Mail .
The shell used is a default assumed by
   .i Mail ;
you can override this default by setting the valued option
   .q SHELL, 
eg:
   .(1
   set SHELL=/bin/csh
   .)1
\fBShell\fP can be abbreviated to \fBsh\fP.
   .ip "\fBsize\fP\ \ "
 Takes a message list and prints out the size in characters of each
message.
   .ip "\fBsource\fP\ \ "
The
   .b source
command reads
   .i mail
commands from a file. It is useful when you are trying to fix your
   .q .mailrc
file and you need to re-read it.
\fBSource\fP can be abbreviated to \fBso\fP.
   .ip "\fBtop\fP\ \ "
The
   .b top
command takes a message list and prints the first five lines
of each addressed message.
If you wish, you can change the number of lines that
the `top` prints out by setting the valued option
`-q "toplines."`
On a CRT terminal,
```bash
set toplines=10
```
might be preferred.
`Top` can be abbreviated to `to`.
```bash
ip "type "
```
Takes a message list and types out each message on the terminal.
The `type` command can be abbreviated to `t`.
```bash
ip "unalias "
```
Takes a list of names defined by `alias` commands and
discards the remembered groups of users.
The group names no longer have any significance.
```bash
ip "undelete "
```
Takes a message list and marks each message as `not`
being deleted.
`undelete` can be abbreviated to `u`.
```bash
ip "unread "
```
Takes a message list and marks each message as `not`
having been read.
`unread` can be abbreviated to `u`.
```bash
ip "unset "
```
Takes a list of option names and discards their remembered values;
the inverse of `set`.
```bash
ip "visual "
```
It is often useful to be able to invoke one of two editors,
based on the type of terminal one is using. To invoke
a display oriented editor, you can use the
`visual` command. The operation of the
`visual` command is otherwise identical to that of the
`edit` command.
```bash
ne 2v+m
```
Both the
```bash
ip \n
```
and
```bash
ip \n
```
commands assume some default text editors.
The default for .q EDITOR is .i /usr/bin/ex . The default for .q VISUAL is .i /usr/bin/vi . These default editors can be overridden by the valued options .q EDITOR and .q VISUAL for the standard and screen editors. You might want to do: .(1
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
)1
The .B Visual .fP can be abbreviated to .B v .fP. The .b save command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the .b write command. The .b write command has the same syntax as the .b save command, and can be abbreviated to simply .b w . Thus, we could write the second message by doing: .(1
w 2 file.c
)1
As suggested by this example, the .b write command is useful for such tasks as sending and receiving source program text over the message system. The filename in quotes, followed by additional file information, is echoed on the user's terminal. .ip "fBz\fP\ " .i Mail presents message headers in windowfuls as described under the .b headers command. You can move .i Mail's
attention forward to the next window by giving the
\( \langle 1 \rangle \)
\( z+ \)
\( \rangle 1 \)
command. Analogously, you can move to the previous window with:
\( \langle 1 \rangle \)
\( z- \)
\( \rangle 1 \)

```
.sh 2 "Custom options"
```

Throughout this manual, we have seen examples of binary and valued options.
This section describes each of the options in alphabetical order, including
some that you have not seen yet.

To avoid confusion, please note that the options are either
all lower case letters or all upper case letters. When I start a sentence
such as:

```
.q "Ask"
```

causes
```
i Mail
```
to prompt you for a subject header,

```
i am only capitalizing
```
.q ask

as a courtesy to English.
```
.ip "\fBEDITOR\fP \ "
The valued option
```
.q EDITOR
```
defines the pathname of the text editor to be used in the
```
.b edit
```
command and \( \text{-e escape} \).

If not defined,
```
.i /usr/bin/ex
```
is used.
```
.ip "\fBLISTER\fP \ "
```
Pathname of the directory lister to use in the \fBfolders\fP command.
```
.default \fB/bin/ls\fP.
```
.ip "\fBMBOX\fP \ "
The name of the \fB mbox\fP file.
```
It can be the name of a folder.
The default is \`mbox\' in the user's home directory.
```
.ip "\fBPAGER\fP \ "
```
Pathname of the program to use for paginating output when
it exceeds \fC\fP lines.
```
A default paginator is used if this option is not defined.
```
.ip "\fBSHELL\fP \ "
The valued option
```
.q SHELL
```
gives the path name of your shell. This shell is used for the
```
.b !
```
command and ~! escape. In addition, this shell expands file names with shell metacharacters like * and ? in them.

```
%BVISUAL%P
```

The valued option

```
.q VISUAL
```

defines the pathname of the screen editor to be used in the

```
.b visual
```

command

and ~v escape.

If not defined,

```
.i /usr/bin/vi
```

is used.

```
%Bappend%P
```

The

```
.q append
```

option is binary and causes messages saved in

```
.i mbox
```

to be appended to the end rather than prepended.

Normally, %IMail%P will put messages in %Imbox%P in the same order that the system puts messages in your system mailbox.

By setting

```
.q append,
```

you are requesting that

```
.i mbox
```

be appended to regardless. It is in any event quicker to append.

```
%Bask%P
```

```
.q "Ask"
```

is a binary option which causes

```
.i Mail
```

to prompt you for the subject of each message you send.

If you respond with simply a newline, no subject field will be sent.

```
%Baskbcc%P
```

```
.q Askbcc
```

is a binary option which causes you to be prompted for additional blind carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

```
%Baskcc%P
```

```
.q Askcc
```

is a binary option which causes you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

```
%Bautoinc%P
```

Causes new mail to be automatically incorporated when it arrives.

Setting this is similar to issuing the \Binc\P command at each prompt.
except that the current message is not reset when new mail arrives.

Autoprint

is a binary option which
causes the
delete
command to behave like
dp
*- thus, after deleting a message, the next one will be typed
classautomatically. This is useful when quickly scanning and deleting
messages in your mailbox.

crt

The valued option
crt

is used as a threshold to determine how long a message must
be before
PAGER

is used to read it.

crt

The binary option
crt

causes debugging information to be displayed. Use of this
option is the same as using the \(\text{\text{-d}}\) command line flag.

dot

is a binary option which, if set, causes
Mail
to interpret a period alone on a line as the terminator
of the message you are sending.

dot

To allow you to change the escape character used when sending
mail, you can set the valued option
escape.

Only the first character of the
escape
option is used, and it must be doubled if it is to appear as
the first character of a line of your message. If you change your escape
character, then ~ loses all its special meaning, and need no longer be doubled
at the beginning of a line.

folder

The name of the directory to use for storing folders of messages.
If this name begins with a `/`

Mail

considers it to be an absolute pathname; otherwise, the folder directory
is found relative to your home directory.

hold

The binary option
hold
causes messages that have been read but not manually dealt with
to be held in the system mailbox. This prevents such messages from
being automatically swept into your \fImbox\fP file.

The binary option

\q ignore

causes <Control-C> characters from your terminal to be ignored and echoed
as @’s while you are sending mail. <Control-C> characters retain their
original meaning in

\i Mail

command mode.

Setting the

\q ignore

option is equivalent to supplying the

\b \i

flag on the command line as described in section 6.

An option related to

\q dot

is

\q ignoreeof

which makes

\i Mail

refuse to accept a <Control-D> as the end of a message.

\q Ignoreeof

also applies to

\i Mail

command mode.

\q Indentprefix

String used by the \fB~m\fP tilde escape for indenting messages,
in place of the normal tab character ('^I').

Be sure to quote the value if it contains spaces or tabs.

The

\q keep

option causes

\i Mail

to truncate your system mailbox instead of deleting it when it
is empty. This is useful if you elect to protect your mailbox, which
you would do with the shell command:

\l
chmod 600 /var/mail/yourname
\l

where

\i yourname

is your login name. If you do not do this, anyone can probably read
your mail, although people usually don't.
When you save a message, Mail usually discards it when you quit.

To retain all saved messages, set the keepsave option.

When sending mail to an alias, Mail makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option metoo.

The binary option noheader suppresses the printing of the version and headers when Mail is first invoked. Setting this option is the same as using on the command line.

Normally, when you abort a message with two <Control-C>'s, Mail copies the partial letter to the file dead.letter in your home directory. Setting the binary option nosave prevents this.

Reverses the sense of reply and Reply commands.

The binary option quiet suppresses the printing of the version when Mail is first invoked, as well as printing the for example "Message 4:"
from the
.b type
call command.
.ip "ifBrecord\fP\ "
If you love to keep records, then the
.valued option
.q record
can be set to the name of a file to save your outgoing mail.
Each new message you send is appended to the end of the file.
.ip "ifBscreen\fP\ "
When
.i Mail
initially prints the message headers, it determines the number to
print by looking at the speed of your terminal. The faster your
terminal, the more it prints.
The valued option
.q screen
overrides this calculation and
specifies how many message headers you want printed.
This number is also used for scrolling with the
.b z
call command.
.ip "ifBsearchheaders\fP\ "
If this option is set, then a message-list specifier in the form
``/x:y'' will expand to all messages containing the substring
`y' in the header field `x'.
The string search is case insensitive.
If `x' is omitted, it will default to the ``Subject'' header field.
The form ``/to:y'' is a special case, and will expand
to all messages containing the substring `y' in the ``To'', ``Cc'',
or ``Bcc'' header fields.
The check for ``to'' is case sensitive, so that ``/To:y''
can be used to limit the search for `y' to just the ``To:'' field.
.ip "ifBsendmail\fP\ "
To use an alternate mail delivery system, set the
.q sendmail
option to the full pathname of the program to use. Note: this is not
for everyone! Most people should use the default delivery system.
.ip "ifBtoplines\fP\ "
The valued option
.q toplines
defines the number of lines that the
.q top
command will print out instead of the default five lines.
.ip "ifBverbose\fP\ "
The binary option "verbose" causes
.i Mail
to invoke sendmail with the
flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking .i Mail with the .b \-v flag as described in section 6.

set append dot save asksub ignore Received Message-Id Resent-Message-Id Status Mail-From Return-Path Via
"OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $" " 
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" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY "
" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF "
" SUCH DAMAGE.
"
"@(#)mail8.nr8.2 (Berkeley) 5/16/94 "
" 
" .sh 1 "Glossary"
" .PP
This section contains the definitions of a few phrases peculiar to .i Mail . .ip "fAlias"f alias An alternative name for a person or list of people.
An option, given on the command line of `Mail`, prefaced with a `-`. For example, `-f` is a flag.

At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include `to`, `cc`, and `subject`.

A collection of messages. Often used in the phrase, "Have you read your mail?"

The place where your mail is stored, typically in the directory `/var/mail`.

A single letter from someone, initially stored in your mailbox.

A string used in `Mail` command mode to describe a sequence of messages.

A piece of special purpose information used to tailor `Mail` to your taste.

Options are specified with the `set` command.

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@(#)mail0.nr 8.1 (Berkeley) 6/8/93

MAIL REFERENCE MANUAL

Kurt Shoens

Revised by

Craig Leres

and
This section describes command line options for Mail and what they are used for.

\"-b list\"

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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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SUCH DAMAGE.
Send blind carbon copies to list.
.ip "\-c list\ "
Send carbon copies to list of users.
List should be a comma separated list of names.
.ip "\-f file\ "
Show the messages in
.i file
instead of your system mailbox. If
.i file
is omitted,
.i Mail
reads
.i mbox
in your home directory.
.ip \-I
Forces mail to run in interactive mode,
even when input is not a terminal.
In particular, the special \fB~\fP command character,
used when sending mail, is only available interactively.
.ip \-i
Ignore tty interrupt signals.
This is particularly useful when using mail on noisy phone lines.
.ip \-N
Suppress the initial printing of headers.
.ip \-n
Inhibit reading of /etc/mail.rc upon startup.
.ip "\-s string"
Used for sending mail.
.i String
is used as the subject of the message being composed. If
.i string
contains blanks, you must surround it with quote marks.
.ip "\-u name"
Read
.i names's
mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,
.b "\-u user"
is a shorthand way of doing
.b "\-f /var/mail/user".
.ip "\-v"
Use the
.b \-v
flag when invoking sendmail. This feature may also be enabled
by setting the option "verbose".
.pp
The following command line flags are also recognized, but are
intended for use by programs invoking
Mail
and not for people.
Turn on debugging information. Not of general interest.
Arrange to print on file the contents of the article-id fields of all messages that were either read or deleted.

is for the readnews program and should NOT be used for reading your mail.

This section gives a quick summary of the
commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>Same as \fBnext\fP</td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of \fIMail\fP commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>Print</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>Reply</td>
<td>Reply to author of message only</td>
</tr>
<tr>
<td>Respond</td>
<td>Same as \fBReply\fP</td>
</tr>
<tr>
<td>Type</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>alias</td>
<td>Define an alias as a set of user names</td>
</tr>
<tr>
<td>alters</td>
<td>List other names you are known by</td>
</tr>
<tr>
<td>chdir</td>
<td>Change working directory, home by default</td>
</tr>
<tr>
<td>copy</td>
<td>Copy a message to a file or folder</td>
</tr>
<tr>
<td>delete</td>
<td>Delete a list of messages</td>
</tr>
<tr>
<td>dp</td>
<td>Same as \Bdt\fP</td>
</tr>
<tr>
<td>dt</td>
<td>Delete current message, type next message</td>
</tr>
<tr>
<td>edit</td>
<td>Edit a list of messages</td>
</tr>
<tr>
<td>else</td>
<td>Start of else part of conditional; see \Bif\fP</td>
</tr>
<tr>
<td>endif</td>
<td>End of conditional statement; see \Bif\fP</td>
</tr>
<tr>
<td>exit</td>
<td>Leave \fIMail\fP without changing anything</td>
</tr>
<tr>
<td>file</td>
<td>Interrogate/change current mail file</td>
</tr>
<tr>
<td>folders</td>
<td>List the folders in your folder directory</td>
</tr>
<tr>
<td>from</td>
<td>List headers of a list of messages</td>
</tr>
<tr>
<td>headers</td>
<td>List current window of messages</td>
</tr>
<tr>
<td>help</td>
<td>Same as \B?\fP</td>
</tr>
<tr>
<td>hold</td>
<td>Same as \Bpreserve\fP</td>
</tr>
<tr>
<td>if</td>
<td>Conditional execution of \fIMail\fP commands</td>
</tr>
<tr>
<td>ignore</td>
<td>Set/examine list of ignored header fields</td>
</tr>
<tr>
<td>incl</td>
<td>Incorporate new messages</td>
</tr>
<tr>
<td>list</td>
<td>List valid \fIMail\fP commands</td>
</tr>
<tr>
<td>mail</td>
<td>Send mail to specified names</td>
</tr>
<tr>
<td>mbox</td>
<td>Arrange to save a list of messages in \Imbox\fP</td>
</tr>
<tr>
<td>more</td>
<td>Invoke pager on message list</td>
</tr>
<tr>
<td>next</td>
<td>Go to next message and type it</td>
</tr>
<tr>
<td>preserve</td>
<td>Arrange to leave list of messages in system mailbox</td>
</tr>
<tr>
<td>print</td>
<td>Print messages</td>
</tr>
<tr>
<td>quit</td>
<td>Leave \fIMail\fP; update system mailbox, \Imbox\fP as appropriate</td>
</tr>
<tr>
<td>reply</td>
<td>Compose a reply to a message</td>
</tr>
</tbody>
</table>
respond
Same as \texttt{\textbackslash bReply}\texttt{\textbackslash P}
retain
Supersedes \texttt{\textbackslash BIgnore}\texttt{\textbackslash P}
save
Append messages, headers included, on a file
saveignore
List of headers to ignore when using the \texttt{save}\texttt{\textbackslash P} command
saveretain
List of headers to retain when using the \texttt{save}\texttt{\textbackslash P} command
set
Set binary or valued options
shell
Invoke an interactive shell
size
Prints out size of message list
source
Read \texttt{\textbackslash mMail}\texttt{\textbackslash P} commands from a file
top
Print first so many (5 by default) lines of list of messages
type
Same as \texttt{\textbackslash bPrint}\texttt{\textbackslash P}
unalias
Remove alias
undelete
Undelete list of messages
unread
Marks list of messages as not been read
unset
Undo the operation of a \texttt{set}\texttt{\textbackslash P}
visual
Invoke visual editor on a list of messages
write
Append messages to a file, don’t include headers
xit
Same as \texttt{\textbackslash eXit}\texttt{\textbackslash P}
z
Scroll to next/previous screenful of headers

The following table describes the options. Each option is shown as being either a binary or valued option.

<table>
<thead>
<tr>
<th>Option</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDITOR</td>
<td>valued</td>
<td>Pathname of editor for \texttt{e} and \texttt{\textbackslash BEdit}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>LISTER</td>
<td>valued</td>
<td>Pathname of directory lister</td>
</tr>
<tr>
<td>MBOX</td>
<td>valued</td>
<td>Pathname of the \texttt{\textbackslash Mbox}\texttt{\textbackslash P} file</td>
</tr>
<tr>
<td>PAGER</td>
<td>valued</td>
<td>Pathname of pager for \texttt{\textbackslash BPrint}\texttt{\textbackslash P}, \texttt{\textbackslash BPrint}\texttt{\textbackslash P}, \texttt{\textbackslash BType}\texttt{\textbackslash P} and \texttt{\textbackslash BType}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>SHELL</td>
<td>valued</td>
<td>Pathname of shell for \texttt{\textbackslash BShell}\texttt{\textbackslash P}, \texttt{\textbackslash B!}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>VISUAL</td>
<td>valued</td>
<td>Pathname of screen editor for \texttt{\textbackslash v}, \texttt{\textbackslash BVisual}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>append</td>
<td>binary</td>
<td>Always append messages to end of \texttt{\textbackslash Mbox}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>ask</td>
<td>binary</td>
<td>Prompt user for Subject: field when sending</td>
</tr>
<tr>
<td>askbcc</td>
<td>binary</td>
<td>Prompt user for additional BCc's at end of message</td>
</tr>
<tr>
<td>askcc</td>
<td>binary</td>
<td>Prompt user for additional Cc's at end of message</td>
</tr>
<tr>
<td>autoinc</td>
<td>binary</td>
<td>Automatically incorporate new mail</td>
</tr>
<tr>
<td>autoprint</td>
<td>binary</td>
<td>Print next message after \texttt{\textbackslash BDelete}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>crtv</td>
<td>valued</td>
<td>Minimum number of lines before using \texttt{\textbackslash BPager}\texttt{\textbackslash P}</td>
</tr>
<tr>
<td>debug</td>
<td>binary</td>
<td>Print out debugging information</td>
</tr>
<tr>
<td>dot</td>
<td>binary</td>
<td>Accept . alone on line to terminate message input</td>
</tr>
<tr>
<td>escape</td>
<td>valued</td>
<td>Escape character to be used instead of \texttt{\textbackslash \textbackslash ~}</td>
</tr>
<tr>
<td>fold</td>
<td>valued</td>
<td>Directory to store folders in</td>
</tr>
<tr>
<td>hold</td>
<td>binary</td>
<td>Hold messages in system mailbox by default</td>
</tr>
</tbody>
</table>
The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>~b name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
<td></td>
</tr>
<tr>
<td>~c name ...</td>
<td>Add names to Cc: field.</td>
<td></td>
</tr>
<tr>
<td>~d</td>
<td>Read \fIdead.letter\fP into message.</td>
<td></td>
</tr>
<tr>
<td>~e</td>
<td>Invoke text editor on partial message.</td>
<td></td>
</tr>
<tr>
<td>~F messages</td>
<td>Same as ~f, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~f messages</td>
<td>Read in messages.</td>
<td></td>
</tr>
<tr>
<td>~h</td>
<td>Edit the header fields.</td>
<td></td>
</tr>
<tr>
<td>~M messages</td>
<td>Same as ~m, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~m messages</td>
<td>Read in messages, right shifted by a tab.</td>
<td></td>
</tr>
<tr>
<td>~p</td>
<td>Print (show) the message buffer.</td>
<td></td>
</tr>
<tr>
<td>~q</td>
<td>Abort message; optionally save copy to \fIdead.letter\fP.</td>
<td></td>
</tr>
<tr>
<td>~r file</td>
<td>Read a file into the message buffer.</td>
<td></td>
</tr>
<tr>
<td>~s string</td>
<td>Set Subject: field to \fIstring\fP.</td>
<td></td>
</tr>
<tr>
<td>~t name ...</td>
<td>Add names to To: field.</td>
<td></td>
</tr>
<tr>
<td>~v</td>
<td>Invoke display editor on message.</td>
<td></td>
</tr>
<tr>
<td>~w filename</td>
<td>Write message to file.</td>
<td></td>
</tr>
<tr>
<td>~x</td>
<td>Abort message; no copy is saved.</td>
<td></td>
</tr>
<tr>
<td>~?</td>
<td>Print a brief summary of tilde escapes.</td>
<td></td>
</tr>
</tbody>
</table>

Use ~]command to execute shell command.

Use ~|command to pipe message through \fIcommand\fP.
The following table shows the command line flags that Mail accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-b list</code></td>
<td>Send blind carbon copies to <code>list</code>.</td>
</tr>
<tr>
<td><code>-c list</code></td>
<td>Send carbon copies to <code>list</code>.</td>
</tr>
<tr>
<td><code>-d</code></td>
<td>Turn on debugging</td>
</tr>
<tr>
<td><code>-f name</code></td>
<td>Show messages in <code>name</code> or <code>~/mbox</code>.</td>
</tr>
<tr>
<td><code>-I</code></td>
<td>Force Mail to run in interactive mode</td>
</tr>
<tr>
<td><code>-i</code></td>
<td>Ignore tty interrupt signals</td>
</tr>
<tr>
<td><code>-N</code></td>
<td>Suppress the initial printing of headers</td>
</tr>
<tr>
<td><code>-n</code></td>
<td>Inhibit reading of <code>/etc/mail.rc</code></td>
</tr>
<tr>
<td><code>-s subject</code></td>
<td>Use <code>subject</code> as subject in outgoing mail</td>
</tr>
<tr>
<td><code>-T file</code></td>
<td>Article-id's of read/deleted messages to <code>file</code>.</td>
</tr>
<tr>
<td><code>-u user</code></td>
<td>Read <code>user</code>'s mail instead of your own</td>
</tr>
<tr>
<td><code>-v</code></td>
<td>Invoke sendmail with the <code>-v</code> flag</td>
</tr>
</tbody>
</table>

Notes:

- `-d` and `-T` are not for human use.

```
"OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
"Copyright (c) 1980, 1993
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"modification, are permitted provided that the following conditions
"are met:
"1. Redistributions of source code must retain the above copyright
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"notice, this list of conditions and the following disclaimer in the
```
While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

Mail provides these capabilities through "tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since Mail requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape
which causes the message to be copied into a temporary file and an
instance of the editor to be spawned. After modifying the message to
your satisfaction, write it out and quit the editor.

Mail
will respond
by typing
.(l
(continue)
).(l
after which you may continue typing text which will be appended to your
message, or type <Control-D> to end the message.

A standard text editor is provided by
Mail.
You can override this default by setting the valued option
q EDITOR
to something else. For example, you might prefer:
.(l
set EDITOR=/bin/ed
).(l
.pp
Many systems offer a screen editor as an alternative to the standard
text editor, such as the
vi
editor from UC Berkeley.
or
mg ,
an emacs-like editor.

To use the screen, or
visual
editor, on your current message, you can use the escape,
.(l
~v
).(l
~v works like ~e, except that the screen editor is invoked instead.

A default screen editor is defined by
Mail.
If it does not suit you, you can set the valued option
q VISUAL
to the path name of a different editor.
.pp
It is often useful to be able to include the contents of some
file in your message; the escape
.(l
~r filename
).(l
is provided for this purpose, and causes the named file to be appended
to your current message.
-Mail
complains if the file doesn't exist or can't be read. If the read is successful, the number of lines and characters appended to your message is printed, after which you may continue appending text. The filename may contain shell metacharacters like * and ? which are expanded according to the conventions of your shell.

As a special case of ~r, the escape

reads in the file

in your home directory. This is often useful since

copies the text of your message there when you abort a message with <Control-C>.

To save the current text of your message on a file you may use the

escape.

will print out the number of lines and characters written to the file, after which you may continue appending text to your message. Shell metacharacters may be used in the filename, as in ~r and are expanded with the conventions of your shell.

If you are sending mail from within

you can read a message sent to you into the message you are constructing with the escape:

which will read message 4 into the current message, shifted right by one tab stop. You can name any non-deleted message, or list of messages. Messages can also be forwarded without shifting by a tab stop with ~f. This is the usual way to forward a message.

If, in the process of composing a message, you decide to add additional people to the list of message recipients, you can do so with the escape

You may name as few or many additional recipients as you wish. Note that the users originally on the recipient list will still receive
the message; you cannot remove someone from the recipient
list with ~t.

If you wish, you can associate a subject with your message by using the escape

\( l ~s \) Arbitrary string of text
\( r l \)

which replaces any previous subject with
\( q \) "Arbitrary string of text."
The subject, if given, is sent near the
top of the message prefixed with
\( q \) "Subject:"
You can see what the message will look like by using ~p.

For political reasons, one occasionally prefers to list certain
people as recipients of carbon copies of a message rather than
direct recipients. The escape

\( l ~c \) name1 name2 ...
\( r l \)

adds the named people to the
\( q \) "Cc:"
list, similar to ~t.

Again, you can execute ~p to see what the message will look like.

The escape

\( l ~b \) name1 name2 ...
\( r l \)

adds the named people to the
\( q \) "Cc:"
list, but does not make the names visible in the
\( q \) "Cc:"
line ("blind" carbon copy).

The recipients of the message together constitute the
\( q \) "To:"
field, the subject the
\( q \) "Subject:"
field, and the carbon copies the
\( q \) "Cc:"
field. If you wish to edit these in ways impossible with the ~t, ~s, ~c
and ~b escapes, you can use the escape

\( l ~h \)
\( r l \)

which prints
followed by the current list of recipients and leaves the cursor
(or printhead) at the end of the line. If you type in ordinary
characters, they are appended to the end of the current list of
recipients. You can also use your erase character to erase back into
the list of recipients, or your kill character to erase them altogether.
Thus, for example, if your erase and kill characters are the standard
(on printing terminals) <Control-H> and <Control-U> keys,
To: root kurt^H^H^H^Hbill
would change the initial recipients
To: root kurt

When you type a newline,
advances to the
Subject:
field, where the same rules apply. Another newline brings you to
the
Cc:
field, which may be edited in the same fashion. Another newline
brings you to the
Bcc:
("blind" carbon copy) field, which follows the same rules as the "Cc:"
field. Another newline
leaves you appending text to the end of your message. You can use
~p to print the current text of the header fields and the body
of the message.

To effect a temporary escape to the shell, the escape
~!command
is used, which executes
command
and returns you to mailing mode without altering the text of
your message. If you wish, instead, to filter the body of your
message through a shell command, then you can use
~|command
which pipes your message through the command and uses the output
as the new text of your message. If the command produces no output,
assumes that something is amiss and retains the old version
of your message. A frequently-used filter is the command
\texttt{.i fmt},
designed to format outgoing mail.
\texttt{.pp}
To effect a temporary escape to
\texttt{.i Mail}
command mode instead, you can use the
\texttt{.l}
\texttt{~:\!Mail command\!P}
\texttt{.l}
escape. This is especially useful for retyping the message you are
replying to, using, for example:
\texttt{.l}
\texttt{~:t}
\texttt{.l}
It is also useful for setting options and modifying aliases.
\texttt{.pp}
If you wish abort the current message, you can use the escape
\texttt{.l}
\texttt{~:q}
\texttt{.l}
This will terminate the current message and return you to the
shell (or \texttt{!Mail\!P} if you were using the \texttt{!Bmail\!P} command).
If the \texttt{!Bsave\!P} option is set, the message will be copied
to the file
\texttt{.q dead.letter}
in your home directory.
\texttt{.pp}
If you wish to abort the current message,
without saving any copy of it whatsoever,
even if the \texttt{!Bsave\!P} option is set,
you can use the escape
\texttt{.l}
\texttt{~:x}
\texttt{.l}
\texttt{.pp}
If you wish (for some reason) to send a message that contains
a line beginning with a tilde, you must double it. Thus, for example,
\texttt{.l}
\texttt{~~This line begins with a tilde.}
\texttt{.l}
sends the line
\texttt{.l}
\texttt{~This line begins with a tilde.}
\texttt{.l}
\texttt{.pp}
Finally, the escape
\texttt{.l}
prints out a brief summary of the available tilde escapes.

On some terminals (particularly ones with no lower case)
tilde's are difficult to type.

Mail allows you to change the escape character with the
escape option. For example, I set

```
set escape=]
```

and use a right bracket instead of a tilde. If I ever need to
send a line beginning with right bracket, I double it, just as for ~.
Changing the escape character removes the special meaning of ~.

This section describes how to send mail to people on other machines.
Recall that sending to a plain login name sends mail to that person
on your machine. If your machine is directly (or sometimes, even,
indirectly) connected to the Internet, you can send messages to people
on the Internet using a name of the form

```
name@host.domain
```

where

- `name` is the login name of the person you're trying to reach,
- `host` is the name of the machine on the Internet,
- `domain` is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

If your recipient logs in on a machine connected to yours by
UUCP (the Bell Laboratories supplied network that communicates
over telephone lines), sending mail can be a bit more complicated.
You must know the list of machines through which your message must
travel to arrive at his site. So, if his machine is directly connected
to yours, you can send mail to him using the syntax:

```
host!name
```

where, again,

- `host`
is the name of the machine and
.i name
is the login name.
If your message must go through an intermediary machine first, you
must use the syntax:
.i(l
intermediary!host!name
.))
and so on. It is actually a feature of UUCP that the map of all
the systems in the network is not known anywhere (except where people
decide to write it down for convenience). Talk to your system administrator
about good ways to get places; the
.i uuname
command will tell you systems whose names are recognized, but not which
ones are frequently called or well-connected.
.pp
When you use the
.b reply
command to respond to a letter, there is a problem of figuring out the
names of the users in the
.q "To:"
and
.q "Cc:"
lists
.i "relative to the current machine".
If the original letter was sent to you by someone on the local machine,
then this problem does not exist, but if the message came from a remote
machine, the problem must be dealt with.
.i Mail
uses a heuristic to build the correct name for each user relative
to the local machine. So, when you
.b reply
to remote mail, the names in the
.q "To:"
and
.q "Cc:"
lists may change somewhat.
.sh 2 "Special recipients"
.pp
As described previously, you can send mail to either user names or
.b alias
names. It is also possible to send messages directly to files or to
programs, using special conventions. If a recipient name has a
`/` in it or begins with a `+`, it is assumed to be the
path name of a file into which
to send the message. If the file already exists, the message is
appended to the end of the file. If you want to name a file in
your current directory (ie, one for which a `/` would not usually
be needed) you can precede the name with `./`
So, to send mail to the file
  .q memo
in the current directory, you can give the command:
  .l
% Mail ./memo
  .l
If the name begins with a `+,' it is expanded into the full path name
of the folder name in your folder directory.
This ability to send mail to files can be used for a variety of
purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
  .b alias
command for the group. Using our previous
  .b alias
example, you might give the command:
  .l
alias project sam sally steve susan /usr/project/mail_record
  .l
Then, all mail sent to "project" would be saved on the file
  .q /usr/project/mail_record
as well as being sent to the members of the project. This file
can be examined using
  .i "Mail \-f" .
  .pp
It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access
it using
  .i Mail .
To send messages to the billboard program, one can send mail
to the special name `|billboard' for example.
  .i Mail
treats recipient names that begin with a `|' as a program to send
the mail to. An
  .b alias
can be set up to reference a `|' prefaced name if desired.
  .i Caveats :
the shell treats `|' specially, so it must be quoted on the command
line. Also, the `| program' must be presented as a single argument to
mail. The safest course is to surround the entire name with double
quotes. This also applies to usage in the
  .b alias
command. For example, if we wanted to alias `msgs' to `msgs -s'
we would need to say:
  .l
alias msgs "| msgs -s"
1.886 hashicorp-go-version 1.2.1

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package datatypes

// no documentation yet

type Legal_RegulatedWorkload struct {
    Entity

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

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

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

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

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

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

type Legal_RegulatedWorkload_Type struct {
    Entity

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

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

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

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g04-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9.tar

go4-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9/reflectutil/swapperUnsafe_15.go

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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```bash
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbc094a8262a6b03d0504
```

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```bash
>>> codegangsta_cli-master
```

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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Gocheck - A rich testing framework for Go

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Go-nfs-client version 0.1

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>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f

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>>> mitchellh_mapstructure-5a0325d7faa1c12dada6e7fb8bd222ec1b69875e

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>>> mreiferson_go-http-client-314f0106b4474f14bc441575c19d3a5fa21aa1f6c

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tomb - support for clean goroutine termination in Go.

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
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+build appengine

Package short implements a simple URL shortener, serving an administrative
interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.

package short

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/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:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Bison implementation for Yacc-like parsers in C


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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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chkconfig: 2345 11 89
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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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line - read one line


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2.32\misc-utils\uuidparse.c
uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
   You should assume a struct passwd has an infinite number of fields, so
   you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Bison interface for Yacc-like parsers in C

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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/lib/sh/inet_aton.c

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/Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
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Version 2.1, February 1999

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General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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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Version 1.1 - 26 February 2007

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----------------------------------------

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1.890 libmnl0 1.0.4 2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!- $Id$ -->

<!- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-vars>
        <xsl:param name="text" select="concat($text, $rest)"/>
      </xsl:with-vars>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

</xsl:stylesheet>
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1.900 grpc-gateway 1.16.0

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1.901 libalgorithm-diff-xs-perl 0.04-6

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---
abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
   url: http://module-build.sourceforge.net/META-spec-v1.3.html
   version: 1.3
name: Algorithm-Diff-XS
no_index:
directory:
   - inc
   - t
requires:
   Algorithm::Diff: 1.19
perl: 5.6.0
version: 0.01

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-
NAME
 Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS
 # Drop-in replacement to Algorithm::Diff, but "compact_diff"
 # and C<LCSidx> will run much faster for large data sets.
 use Algorithm::Diff::XS qw( compact_diff LCSidx );

DESCRIPTION
 This module is a simple re-packaging of Joe Schaefer's excellent but not
 very well-known Algorithm::LCS with a drop-in interface that simply
 re-uses the installed version of the Algorithm::Diff module.

 Note that only the "LCSIdx" function is optimized in XS at the moment,
 which means only "compact_diff" will get significantly faster for large
 data sets, while "diff" and "sdiff" will run in identical speed as
 "Algorithm::Diff".

BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algorithm::Diff</td>
<td>14.7/s</td>
<td>--</td>
</tr>
<tr>
<td>Algorithm::Diff::XS</td>
<td>806/s</td>
<td>5402%</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmphthese( 500, { 
    'Algorithm::Diff' => sub { 
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub { 
        Algorithm::Diff::XS::compact_diff(@data)
    },
});
```

SEE ALSO
 Algorithm::Diff, Algorithm::LCS.

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'GNU lesser public license' => 'gpl', 1,
'BSD license' => 'bsd', 1,
'proprietary' => 'proprietary', 0,

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=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.

Note that only the C<LCSidx> function is optimized in XS at the moment, which means only C<compact_diff> will get significantly faster for large data sets, while C<diff> and C<diff> will run in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>--</td>
<td>-98%</td>
</tr>
</tbody>
</table>
The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
});
```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

=head1 COPYRIGHT

Copyright 2008 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>. Contains derived code copyrighted 2003 by Joe Schaefer, E<lt>joe+cpan@sunstarsys.comE<gt>. This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2008 by Audrey Tang
 * Contains derived code copyrighted 2003 by Joe Schaefer
 */

ppport.h -- Perl/Pollution/Portability Version 3.06_01


Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

.SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only up to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.
Don't output any hints. Hints often contain useful portability notes.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Lists the API elements for which compatibility is provided by \texttt{ppport.h}. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

Lists the API elements that are known not to be supported by \texttt{ppport.h} and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching \texttt{I<name>}. If \texttt{I<name>} is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided
to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier
versions of Perl, and that can't be provided using a macro, you have
to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by
C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions, you want either C<static> or global variants.

For a C<static> function, use:

#define NEED_function

For a global function, use:

#define NEED_function_GLOBAL

Note that you mustn't have more than one global request for one
function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the \texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

\begin{verbatim}
perl ppport.h
\end{verbatim}

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

\begin{verbatim}
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
\end{verbatim}

If you only want your code to be scanned without any suggestions for changes, use:

\begin{verbatim}
perl ppport.h --nochanges
\end{verbatim}

You can specify a different \texttt{diff} program or options, using the \texttt{--diff=} option:

\begin{verbatim}
perl ppport.h --diff='diff -C 10'
\end{verbatim}
This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/\./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

my %opt = (
    quiet   => 0,
    diag    => 1,
    hints   => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
);

my ($ppport) = $0 =~ /\[(\w+)\]/;
my $LF = '(?:\r\n|[^\r\n])'; # line feed
my $HS = "[ \t"]"; # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus
        patch=s copy=s diff=s compat-version=s
    ));
}
list-provided list-unsupported api-info=s
)) or usage();
;

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; 
  if (@{ }) {
    die "Invalid version number format: $opt{'compat-version'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%.03d%.03d", $r, $v, $s;
  } else {
    $opt{'compat-version'} = 5;
  }

# Never use C comments in this file!!!!!
my $ccs = '/.*';
my $cce = '*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(.+)/|(.+)|(.+)|(.+)/ } qw(
  AvFILLp[5.004050]|p
  AvFILL||
  CLASS||n
  CX_CURPAD_SAVE||
  CX_CURPAD_SV||
  CopFILEAV[5.006000]|p
  CopFILEGV_set[5.006000]|p
  CopFILEGV[5.006000]|p
  CopFILESV[5.006000]|p
  )
  "invalid spec: $_" } qw("_", "^");
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
FREETMPS|||
GIMME_V|5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_NOARGS|||
G_SCALAR|||
G_VOID|5.004000|
GetVars|||
GvSV|||
Gv_AMupdate|||
HEf_SVKEY|5.004000|
HeHASH|5.004000|
HeKEY|5.004000|
HeKLEN|5.004000|
HePV|5.004000|
HeSVKEY_force|5.004000|
HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeVAL|5.004000|
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_sv_arearoot</td>
<td>5.004050</td>
</tr>
<tr>
<td>PL_sv_no</td>
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<tr>
<td>PL_sv_undef</td>
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</tr>
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<td>5.004050</td>
</tr>
<tr>
<td>PL_tainted</td>
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<td>5.004050</td>
</tr>
<tr>
<td>POPi</td>
<td>n</td>
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<td>POPi</td>
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<tr>
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<td>n</td>
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</tr>
<tr>
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<td>5.006000</td>
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<tr>
<td>PUSHMARK</td>
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<tr>
<td>PUSHl</td>
<td>n</td>
</tr>
<tr>
<td>PUSHmortal</td>
<td>5.009002</td>
</tr>
<tr>
<td>PUSHn</td>
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<tr>
<td>PUSHp</td>
<td>n</td>
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<tr>
<td>PUSHs</td>
<td>n</td>
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<tr>
<td>PUSHu</td>
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</tr>
<tr>
<td>PUTBACK</td>
<td>n</td>
</tr>
<tr>
<td>PerlIO_clearerr</td>
<td>5.007003</td>
</tr>
<tr>
<td>PerlIO_close</td>
<td>5.007003</td>
</tr>
<tr>
<td>PerlIO_eof</td>
<td>5.007003</td>
</tr>
<tr>
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<td>5.007003</td>
</tr>
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<td>PerlIO_fill</td>
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<td>PerlIO_flush</td>
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<td>PerlIO_get_base</td>
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<td>PerlIO_seek</td>
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<td>PerlIO_get_cnt</td>
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</tr>
<tr>
<td>PerlIO_set_linebuf</td>
<td>5.007003</td>
</tr>
</tbody>
</table>
Poison\[5.008000\]|p
RETVAL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFSV\[5.004050\]|p
SPAGAIN||
SP||
START_EXTERN_C\[5.005000\]|p
START_MY_CXT\[5.007003\]|p
STMT_END||p
STMT_START||p
ST||
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGETMAGIC\[5.004050\]|p
SvGROW||
SvIOK_UV\[5.006000\]
SvIOK_notUV\[5.006000\]
SvIOK_off||
SvIOK_only_UV\[5.006000\]
SvIOK_only||
SvIOK_oni||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg\[5.009001\]|p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash\[5.008003\]
SvIsCOW\[5.008003\]
SvLEN_set||

ck_exists||
ck_exit||
ck_fstst||
ck_fun||
ck_glob||
ck_grep||
ck_index||
ck_join||
ck_lengthconst||
ck_fun||
ck_listiob||
ck_match||
ck_method||
ck_null||
ck_open||
ck_repeat||
ck_require||
ck_retarg||
ck_return||
ck_rfun||
ck_rvconst||
ck_sassign||
ck_select||
ck_shift||
ck_sort||
ck_spair||
ck_split||
ck_subr||
ck_substr||
ck_svconst||
ck_trunc||
ck_unpack||
cl_and||
cl_init_zero||
cl_init||
cl_is Anything||
closet_cop||
copy||
cop_free||
cr_textfilter||
croak_nocontext||
croak||
csighandler||
custom_op_desc||
custom_op_name||
cv_ckproto||
do_aexec5|||
do_aexec|||
do_aspawn|||
do_binmode||5.004050|
do_chomp|||
do_chop|||
do_close|||
do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump||5.006000|
do_gvgv_dump||5.006000|
do_hv_dump||5.006000|
do_ipcctl|||
do_ipcget[]|
do_join[]|
do_kv[]|
do_magic_dump||5.006000|
do_msgrcv[]|
do_msgsnd[]|
do_oddball[]|
do_op_dump||5.006000|
do_open9||5.006000|
do_openn||5.007001|
do_open[]|5.004000|
do_pipe[]|
do_pmop_dump||5.006000|
do_print[]|
do_readline[]|
do_seek[]|
do_semop[]|
do_shmio[]|
do_spawn_nowait[]|
do_spawn[]|
do_sprintf[]|
do_sv_dump||5.006000|
do_sysseek[]|
do_tell[]|
do_trans_complex_utf8[]|
do_trans_complex[]|
do_trans_count_utf8[]|
do_trans_count[]|
do_trans_simple_utf8[]|
do_trans_simple[]|
do_trans[]|
do_vecget[]|
do_vecset

do_vop

docatch_body

docatch

doeval

dofile

dofindlabel

doform

doing_taint

doopen_pm

doparseform

dopoptoeval

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptosub

downwind

dowanarray

dump_all

dump_eval

dump_fds

dump_form

dump_indent

dump_mstats

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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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if (m{"s*rsccs\s+(\w+)\s+depends\s+on\s+(\w+\s+\w+\s+*\w+\s+*\w+)\s+rsccs\s*\$}) {
  push @{$depends{$1}}, map { s/\s+//g; \$_ } split /, /; $2;
}

$need{$1} = 1 if m{"\$if\$\+defined\(NEED_\($\w+\)\(\:_GLOBAL\)?\)};

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ ~m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\$escaped$";
  foreach (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base.
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.
      $info++;
    }
    unless ($info) {
      print "No portability information available.
    }
    $count++;
  }
  if ($count > 0) {
    print "\n";
  } else {
    print "Found no API matching $opt{'api-info'}.\n";
    exit 0;
  }

  if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
      next unless $API{$f}{provided};
      my @flags;
      push @flags, 'explicit' if exists $need{$f};
      print "\n";
    }
  }
}
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);
%revreplace = reverse %replace;

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my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# temporarily remove C comments from the code
my @ccom;
$c =~ s{
(
[^"'/]+
|
(?:"[^"\\]*(?:\\.[^"\\]*)*" [^"'/]*)+
|
(?:'[^'\\]*(?:\\.[^'\\]*)*' [^"'/]*)+
)
|
(/ (?:
\*[^*]*\*+(?:[^$ccs][^*]*\*+)* /
|
/[^\r\n]*
))
}{
defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};

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$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
if (exists $need{$_}) {
$file{needs}{$_} = 'static';
}
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else {
warning("Possibly wrong #define $1 in $filename");
}
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {

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my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}

for $filename (@files) {
exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*(!aTHX_\?)\)?([aTHX_\s]*))}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
        else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\(.*aTHX_\?\)?([aTHX_\s]*\)}{$func$1\1()}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}";
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses}}) {
        next unless $file{uses}{$func};   # if it's only a dependency
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
    }
}
elsif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
} else {
    diag("Uses $func");
} hint($func);

for $func (sort keys %{$file{uses_todo}}) { 
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) { 
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) { 
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } 
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}
$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = "\n
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@ {global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "\n    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n"
  }
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^{$HS*#$HS*define$HS+NEED_\w+}*/$1$pp/ms)
    || ($c =~ s/^{$HS*#$HS*include.*}$ppport/E/$pp/m)
    || ($c =~ s/^{$HS*#$HS*include.*XSUB.*\s*/}$1$pp/m)
    || ($c =~ s/^/$pp/);
  }
  else {
    if ($file{has_inc_ppport}) {
      diag("No need to include '$ppport'");
      $file{changes} += ($c =~ s/^{$HS*?$HS*include.*/Q$ppport\E.?$LF//m);
    }
  }

  # put back in our C comments
  my $six;
  my $cppc = 0;
  my @ccom = @{$file{ccom}};

for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } else {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    }
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    }
else {
  fallback:
    info("Suggested changes:");
    mydiff(^STDOUT, $filename, $c);
  }
}
else {
  my $s = $file{changes} == 1 ? '' : 's';
  info("$file{changes} potentially required change$s detected");
}
}
else {
  info("Looks good");
}
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and can_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {

error("Cannot generate a diff. Please install Text::Diff or use --copy.");
return;
}

print F $diff;

}

sub run_diff
{
my($prog, $file, $str) = @_;  
my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = ";
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
print F $str;
close F;

if (open F, "$prog \$file $tmp |") {
while (<F>) {
s/\Q$tmp\E/$file.patched/;
$diff .= $._;
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub can_use
{
  eval "use @_;";
  return @$ eq "
}
sub rec_depend
{
    my $func = shift;
    my %seen;
    return () unless exists $depends{$func};
    grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /\((d+)\.(d+)\.(d+)\)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\-[\d\_]+$/) {
        die "cannot parse version '$ver'\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\((d+)\.(d\{3\})\)(d\{3\})/;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }
    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\((d+)\.(d\{3\})\)(d\{3\})/;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }
    return ($r, $v, $s);
}
     die "invalid version \$ver\n";
   }
   \$s /= 10;

   \$ver = sprintf "%d.%03d", \$r, \$v;
   \$s > 0 and \$ver .= sprintf "_%02d", \$s;

   return \$ver;
 }

return sprintf "%d.%d.%d", \$r, \$v, \$s;
 }

sub info
 {
   \$opt{quiet} and return;
   print @_, "\n";
   }

sub diag
 {
   \$opt{quiet} and return;
   \$opt{diag} and print @_, "\n";
   }

sub warning
 {
   \$opt{quiet} and return;
   print "*** \n", @_, "\n";
   }

sub error
 {
   print "*** ERROR: \n", @_, "\n";
   }

my %given_hints;
sub hint
 {
   \$opt{quiet} and return;
   \$opt{hints} or return;
   my \$func = shift;
   exists \$hints{\$func} or return;
   \$given_hints{\$func}++ and return;
   my \$hint = \$hints{\$func};
   \$hint =~ s/^/   /mg;
   print "   --- hint for \$func ---\n", \$hint;
   }

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Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;

__DATA__

*/

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.902 linux-base 4.5ubuntu3.1

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1.903 libudev 245.4 4ubuntu3.13

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1.904 jaxb-runtime 2.3.1

1.905 swagger-core 1.3.5
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1.906 grpc-go 1.25.1

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1.908 python-minimal 3.8.2 0ubuntu2
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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--------------------------------------------------------------
A. HISTORY OF THE SOFTWARE
==================================
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.914 build-essential 12.8ubuntu1.1

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copyleft-next-0.3.0
copyleft-next-0.3.1
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diffmark
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1.917 toml 0.10.0

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1.918 libpcre 2:8.39 12build1

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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 original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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Written by: Philip Hazel
Email local part: ph10
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1.920 python-pkg-resources 45.2.0 1

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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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Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit”. It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

.. code-block:: text

   $ pip install -U click


A Simple Example
----------------

.. code-block:: python

   import click

   @click.command()
   @click.option("--count", default=1, help="Number of greetings.")
   @click.option("--name", prompt="Your name", help="The person to greet.")
   def hello(count, name):
       """Simple program that greets NAME for a total of COUNT times."""
       for _ in range(count):
           click.echo("Hello, {name}!")

   if __name__ == '__main__':
       hello()

   .. code-block:: text

       $ python hello.py --count=3
       Your name: Click
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Links
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[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = true
source =
click
tests

[coverage:paths]
source =
click
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/click/__init__.py: F401
As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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* /opt/cola/permits/1213117229_1634662845.86/0/click-8-0-3-tar-gz/click-8.0.3/docs/contrib.rst

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** uuid_sha1.h: SHA-1 API definition
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** ui128.h: API declaration
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** uuid_dce.c: DCE 1.1 compatibility API implementation
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**
** uuid_str.h: string formatting functions
*/

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** uuid_time.c: Time Management
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/*
** OSSP uuid - Universally Unique Identifier
uuid_mac.h: Media Access Control (MAC) resolver API definition

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-- uuid.sql: PostgreSQL Binding (SQL part)

--

-- prolog

--

SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING) CASCADE;
DROP FUNCTION uuid_out(uuid) CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid) CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid) CASCADE;
DROP CAST (uuid AS CSTRING) CASCADE;

DROP FUNCTION uuid(CSTRING) CASCADE;
DROP FUNCTION uuid(INTEGER) CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;

DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <>(uuid,uuid) CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR >=(uuid,uuid) CASCADE;

DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;
BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION uuid_in(CSTRING) RETURNS uuid
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION uuid_out(uuid) RETURNS CSTRING
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION uuid_recv(INTERNAL) RETURNS uuid
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION uuid_send(uuid) RETURNS BYTEA
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (  
    INPUT   = uuid_in, -- for SQL input  
    OUTPUT  = uuid_out, -- for SQL output  
    RECEIVE = uuid_recv, -- for DB input  
    SEND    = uuid_send, -- for DB output  
    DEFAULT = 'uuid(1)',  
    INTERNALLENGTH = 16,  
    ALIGNMENT = char
);

COMMENT ON TYPE uuid
IS 'UUID type';

-- CREATE CAST (CSTRING AS uuid)  
-- WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)  
-- WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;

--
-- the UUID constructor function
CREATE FUNCTION
    uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
    uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
    uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--

-- the UUID operators
--

CREATE FUNCTION
    uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
    uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
    uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
    uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
    uuid_le(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
    uuid_ge(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (  
  leftarg  = uuid,  
  rightarg = uuid,  
  negator  = <>,  
  procedure = uuid_eq
);

CREATE OPERATOR <> (  
  leftarg  = uuid,  
  rightarg = uuid,  
  negator  = =,  
  procedure = uuid_ne
);

CREATE OPERATOR < (  
  leftarg  = uuid,  
  rightarg = uuid,  
  commutator = >,  
  negator  = >=,  
  procedure = uuid_lt
);

CREATE OPERATOR > (  
  leftarg  = uuid,  
  rightarg = uuid,  
  commutator = <,  
  negator  = <=,  
  procedure = uuid_gt
);

CREATE OPERATOR <= (  
  leftarg  = uuid,  
  rightarg = uuid,  
  commutator = >=,  
  negator  = >,  
  procedure = uuid_le
);

CREATE OPERATOR >= (  
  leftarg  = uuid,  
  rightarg = uuid,  
  commutator = <=,  
  negator  = <,  
  procedure = uuid_ge
);
CREATE FUNCTION
  uuid_hash(uuid) RETURNS INTEGER
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION
  uuid_cmp(uuid, uuid) RETURNS INTEGER
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops
  DEFAULT FOR TYPE uuid USING hash AS
  OPERATOR 1 =, -- 1: equal
  FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops
  DEFAULT FOR TYPE uuid USING btree AS
  OPERATOR 1 <, -- 1: less than
  OPERATOR 2 <=, -- 2: less than or equal
  OPERATOR 3 =, -- 3: equal
  OPERATOR 4 >=, -- 4: greater than or equal
  OPERATOR 5 >, -- 5: greater than
  FUNCTION 1 uuid_cmp(uuid, uuid);

--
--  epilog
--

COMMIT;

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** uuid_md5.h: MD5 API definition
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** uuid.h: library API definition
*/
OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- http://www.ossp.org/pkg/lib/uuid/

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** ui128.c: implementation of 128-bit unsigned integer arithmetic
*/

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** uuid++.cc: library C++ API implementation
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uuid.pc.in: pkg-config(1) specification

prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

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** uuid.c: library API implementation
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** uuid_bm.c: bitmask API implementation
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** uuid_ac.c: auto-configuration
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## of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
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uuid_compat.pod: Data::UUID Backward Compatibility Perl API (Perl/POD part)

=head1 NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

=head1 DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without changes.

=head1 SEE ALSO

B<OSSP::uuid>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<dexter@debian.orgE>g>. It was later cleaned up and speed optimized in December 2005 by David Wheeler E<david@justatheory.comE>g>. 

=cut
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**
** uuid_prng.h: PRNG API definition
*/

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/uuid_prng.h
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* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/uuid.php
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/uuid.php5
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/uuid-config.in
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/uuid.ts
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/uuid-php5
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/config.in
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/uuid.php4
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/perl/Makefile.PL
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/config.in
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/perl/Makefile.PL
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/php/uuid.php4
* /opt/cola/permits/1251807074_1641834490.70/uuid-1.6.2/perl/Makefile.PL
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**
** uuid_str.c: string formatting functions
*/

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.7/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_str.c

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uuid.c: PostgreSQL Binding (C part)

 Found in path(s):
 * /opt/cola/permits/1251807074_1641834490.70/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/pgsql/uuid.c
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**
** uuid_prng.c: PRNG API implementation
*/

Found in path(s):
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##
## uuid.pod: manual page
##

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier>

=head1 VERSION
OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<OSSP uuid> is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant U<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B<OSSP uuid>.

=head2 UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
[4] version
 --> |  |<--
| |  16 [32]
| |  | 16      time_hi
| |  |  |time_mid | _and_version
|<--------------------------|<------------|<------------|
| MSB |                  | |           |
| /    |                | |           |
|/     |                 | |           |
```

+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+
| 15 || 14 || 13 || 12 || 11 || 10 || 9 || 8 |
| MSO || | | | | | | | |
+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+------------------------+

76543210765432107654321076543210765432107654321076543210765432107654321076543210765432107654321076543210
An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```
uuid                        = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> <clock_seq_low> "-" <node>
  <time_low>                  = 4*<hex_octet>
  <time_mid>                  = 2*<hex_octet>
  <time_high_and_version>     = 2*<hex_octet>
  <clock_seq_high_and_reserved> = <hex_octet>
  <clock_seq_low>             = <hex_octet>
  <node>                      = 6*<hex_octet>
  <hex_octet>                 = <hex_digit> <hex_digit>
  <hex_digit>                 = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
```
An example of a UUID string representation is the ASCII string "C<81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_STR>.

Notice: a corresponding URL can be generated out of an ASCII string representation of an UUID by prefixing with "C<urn:uuid:>", as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>.

Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25.". An example OID is "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:>", as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)
These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=head2 Nil UUID

There is a special I<Nil> UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does
not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of OSSP uuid consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=item B&lt;UUID_VERSION&gt;

The hexadecimal encoded OSSP uuid version. This allows compile-time checking of the OSSP uuid version. For run-time checking use B&lt;uuid_version&gt;() instead.

The hexadecimal encoding for a version "$I&lt;v&gt;.$$I&lt;r&gt;.$$I&lt;t&gt;.$$I&lt;l&gt;" is calculated with the B&lt;GNU shtool&gt; B&lt;version&gt; command and is (in Perl-style for concise description) "sprintf('0x%x%02x%d%02x', $I&lt;v&gt;, $I&lt;r&gt;, {qw(s 9 . 2 b 1 a 0})-&gt;{$I&lt;t&gt;}, ($I&lt;t&gt; eq 's' ? 99 : $I&lt;l&gt;))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B&lt;UUID_LEN_BIN&gt;, B&lt;UUID_LEN_STR&gt;, B&lt;UUID_LEN_SIV&gt;

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B&lt;UUID_LEN_STR&gt;) and the lengths of the single integer value representation (B&lt;UUID_LEN_SIV&gt;) does not include the necessary C&lt;NUL&gt; termination character.

=item B&lt;UUID_MAKE_V1&gt;, B&lt;UUID_MAKE_V3&gt;, B&lt;UUID_MAKE_V4&gt;, B&lt;UUID_MAKE_V5&gt;, B&lt;UUID_MAKE_MC&gt;

The I&lt;mode&gt; bits for use with B&lt;uuid_make&gt;(). The B&lt;UUID_MAKE_V&gt;I&lt;N&gt; specify which UUID version to generate. The B&lt;UUID_MAKE_MC&gt; forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B&lt;UUID_RC_OK&gt;, B&lt;UUID_RC_ARG&gt;, B&lt;UUID_RC_MEM&gt;, B&lt;UUID_RC_SYS&gt;, B&lt;UUID_RC_INT&gt;, B&lt;UUID_RC_IMP&gt;

The possible numerical return-codes of API functions. The C&lt;UUID_RC_OK&gt; indicates success, the others indicate errors. Use B&lt;uuid_error&gt;() to translate them into string versions.
The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>().
The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>),
the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>),
the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum
length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=head2 FUNCTIONS

The following functions are provided:

-create a new UUID object and store a pointer to it in C<*>I<uuid>.
A UUID object consists of an internal representation of a UUID, the
internal PRNG and MD5 generator contexts, and cached MAC address and
timestamp information. The initial UUID is the I<Nil> UUID.

-destroy UUID object I<uuid>.

-clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

-checks whether the UUID in I<uuid> is the I<Nil> UUID.
If this is the case, it returns I<true> in C<*>I<result>.
Else it returns I<false> in C<*>I<result>.

-compares the order of the two UUIDs in I<uuid1> and I<uuid2>
and returns the result in C<*>I<result>: C<-1> if I<uuid1> is
smaller than I<uuid2>, C<0> if I<uuid1> is equal to I<uuid2>
and C<+1> if I<uuid1> is greater than I<uuid2>.

-import a UUID from a data buffer.

Imports a UUID I<uuid> from an external representation of format I<fmt>.
The data is read from the buffer at I<data_ptr> which contains at least
I<data_len> bytes.

The format of the external representation is specified by I<fmt> and the
minimum expected length in I<data_len> depends on it. Valid values for
I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR> and B<UUID_FMT_SIV>.

Exports a UUID I<uuid> into an external representation of format
I<fmt>. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR>,
B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The data is written to the buffer whose location is obtained
by dereferencing I<data_ptr> after a "cast" to the appropriate
pointer-to-pointer type. Hence the generic pointer argument I<data_ptr>
is expected to be a pointer to a "pointer of a particular type", i.e.,
it has to be of type "C<unsigned char **>" for B<UUID_FMT_BIN> and
"C<char **>" for B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The buffer has to be room for at least C<*I<data_len> bytes. If the value
of the pointer after "casting" and dereferencing I<data_ptr>
is C<NULL>, I<data_len> is ignored as input and a new buffer is
allocated and returned in the pointer after "casting" and dereferencing
I<data_ptr> (the caller has to free(3) it later on).

If I<data_len> is not C<NULL>, the number of available bytes in the
buffer has to be provided in C<*I<data_len> and the number of actually
written bytes are returned in C<*I<data_len> again. The minimum
required buffer length depends on the external representation as
specified by I<fmt> and is at least B<UUID_LEN_BIN> for B<UUID_FMT_BIN>,
B<UUID_LEN_STR> for B<UUID_FMT_STR> and B<UUID_LEN_SIV> for
B<UUID_FMT_SIV>. For B<UUID_FMT_TXT> a buffer of unspecified length is
required and hence it is recommended to allow B<OSSP uuid> to allocate
the buffer as necessary.

Loads a pre-defined UUID value into the UUID object I<uuid>. The
following I<name> arguments are currently known:

=over 4

=item I<name> I<UUID>
The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>), second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.
EXAMPLE

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}

SEE ALSO

The following are references to B<UUID> documentation and specifications:

over 4

=item
B <A Universally Unique IDentifier (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B <Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B <DCE 1.1: Remote Procedure Call>,
appendix B <Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm

=item

Information technology -- Open Systems Interconnection (OSI),
B <Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340.00),
http://www.iso.ch/cate/d2229.html

=item

B <HTTP Extensions for Distributed Authoring (WebDAV)>,
section B <6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
http://www.ietf.org/rfc/rfc2518.txt

=item

B <DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE
=back

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E&lt;rse@engelschall.comE&gt;. It was prompted by the use of UUIDs
in the B<OSSP as> and B<OpenPKG> projects. It is a clean room
implementation intended to be strictly standards compliant and maximum
portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.70/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid.pod

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 **
 ** uuid_dce.h: DCE 1.1 compatibility API definition
 */
Open Source Used In DNAC System Engineering release/octomore-intg 11024

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.7/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_dce.h

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* /opt/cola/permits/1251807074_1641834490.7/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/configure.ac

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**
** uuid_sha1.c: SHA-1 API implementation
*/

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uuid.pod: Perl Binding (Perl/POD part)

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API.

Three variants are provided:
The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

```plaintext
use OSSP::uuid;
my $uuid, 'OSSP::uuid::tie', $mode, ...;
$uuid = [ $mode, ... ];
print "UUID=$uuid\n";
untie $uuid;
```

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

```plaintext
use OSSP::uuid;
my $uuid = new OSSP::uuid;
$uuid->load($name);
$uuid->make($mode, ...);
$result = $uuid->isnil();
$result = $uuid->compare($uuid2);
$result = $uuid->import($fmt, $data_ptr);
$data_ptr = $uuid->export($fmt);
error($str[$rc]) = $uuid->error();
$ver = $uuid->version();
undef $uuid;
```
Additionally, the strings \texttt{"v1"}, \texttt{"v3"}, \texttt{"v4"}, \texttt{"v5"} and \texttt{"mc"} can be used in \texttt{C<$mode$>} and the strings \texttt{"bin"}, \texttt{"str"}, and \texttt{"txt"} can be used for \texttt{C<$fmt$>}.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSPP uuid> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=item C<use OSSP::uuid qw(:all)>;

=item C<my $uuid; $rc = B<uuid_create>(C<$uuid>);>

=item C<$rc = B<uuid_load>(C<$uuid>, $name)>;

=item C<$rc = B<uuid_make>(C<$uuid>, $mode, ...)>;

=item C<$rc = B<uuid_isnil>(C<$uuid>, $result)>;

=item C<$rc = B<uuid_compare>(C<$uuid>, $uuid2, $result)>;

=item C<$rc = B<uuid_import>(C<$uuid>, $fmt, $data_ptr, $data_len)>;

=item C<$rc = B<uuid_export>(C<$uuid>, $fmt, $data_ptr, $data_len)>;

=item C<$str = B<uuid_error>(C<$rc)>;

=item C<$ver = B<uuid_version>()>;

=item C<$rc = B<uuid_destroy>(C<$uuid)>;

=back

Additionally, the following constants are exported for use in \texttt{C<$rc$>, C<$mode$>, C<$fmt$> and C<$ver$>:

\begin{itemize}
  \item \texttt{UUID_VERSION},
  \item \texttt{UUID_LEN_BIN},
  \item \texttt{UUID_LEN_STR},
  \item \texttt{UUID_RC_OK},
  \item \texttt{UUID_RC_ARG},
  \item \texttt{UUID_RC_MEM},
\end{itemize}

=head1 EXAMPLES

The following two examples create the version 3 UUID C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str\n";

# C-style API (low-level)
use OSSP::uuid qw(all);
my $uuid; uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in November 2004 by Ralf S. Engelschall E<rse@engelschall.comE>.

=cut

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 **
 ** uuid_time.h: Time Management API
 */

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** uuid.xs: Perl Binding (Perl/XS part)
*/

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/*
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**
** ui64.h: API declaration
*/

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dnl

dnl config.m4: PHP/Zend API build-time configuration (language: m4)
PHP_ARG_ENABLE(uuid, OSSP uuid module,
[  --enable-uuid             Enable OSSP uuid extension module.])

if test "$PHP_UUID" != "no"; then
   PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
   AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
   PHP_ADD_LIBPATH([..], )
   PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
   PHP_ADD_INCLUDE([..])
   PHP_SUBST(UUID_SHARED_LIBADD)

dnl avoid linking conflict with a potentially existing uuid_create(3) in libc
AC_CHECK_FUNC(uuid_create,[
   SAVE_LDFLAGS="$LDFLAGS"
   LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
   AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
   LDFLAGS="$SAVE_LDFLAGS")
fi

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.70/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/config.m4
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=pod

=head1 NAME

B<OSSP uuid>- B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-l>]
[B<-F> I<format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and
corresponding command line interface (CLI) for the generation of DCE
1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique
Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time
and node based), version 3 (name based, MD5), version 4 (random number
based) and version 5 (name based, SHA-1). Additional API bindings are
provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional
backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID
APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult
to guess. They are globally unique identifiers which can be locally
generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS

=over 3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>", and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>

Generate I<count> UUIDs instead of just a single one (the default).

=item B<-1>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:
=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.

=back

=head1 EXAMPLES

# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272ff725

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
code: STR: 01c47915-4777-11d8-bc70-0090272ff725
   SIV: 2349374037528578887923094374772111141
   version: 1 (time and node based)
   clock: 15472 (usually random)
# generate DCE 1.1 v3 UUID (name based)
```
$ uuid -v3 ns:URL http://www.ossp.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd
```

# decode and dump DCE 1.1 v3 UUID (name based)
```
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR:     02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV:     3789866285607910888100818383505376205
version: 3 (name based, MD5)
    (not decipherable: MD5 message digest only)
```

# generate DCE 1.1 v4 UUID 4 (random data based)
```
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
```

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
```
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR:     eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV:     312712571721458096795109569559423831823
version: 4 (random data based)
    (no semantics: random data only)
```

=head1 SEE ALSO

uuid(3), OSSP::uuid(3).
=cut

Found in path(s):
* /opt/cola/permits/1251807074_1641834490.7/0/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_cli.pod

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** uuid++.hh: library C++ API definition
*/

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* /opt/cola/permits/1251807074_1641834490.70/ossp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid++.hh

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**
** uuid_cli.c: command line tool
 */

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 **
 ** uuid_md5.c: MD5 API implementation
 */

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### uuid++.pod: manual page for C++ API
###
### =pod

=head1 NAME
B< OSSP uuid> - B<Universally Unique Identifier> (C++ API)

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B< OSSP uuid> C API. It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type B<uuid_t>.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of B< OSSP uuid> consists of the following components:

=head2 CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

=head2 CLASSES

The following classes are provided:

=over 4

=item B<uuid>

This is the class corresponding to the C API type B<uuid_t>. It is the main object.

=item B<uuid_error_t>

This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.

=back

=head2 METHODS

The following methods are provided:

=over 4

=item B<uuid>();
The standard constructor.

=item B<uuid>(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t *_obj);

The import constructor for C API objects.

=item B<uuid>(const void *_bin);

The import constructor for binary representation.

=item B<uuid>(const char * _str);

The import constructor for string representation.

=item ~B<uuid>();

The standard destructor for B<uuid> class.

=item uuid &B<uuid>::operator=(const uuid &_obj);

The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid>::operator=(const uuid_t * _obj);

The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid>::operator=(const void * _bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid>::operator=(const char * _str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid>::clone>(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid>::load>(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid>::make>(unsigned int _mode, ...);
Regular method corresponding to the C API function `uuid::isnull`.

```c
=item int B<uuid::isnull>(void);
```

Regular method corresponding to the C API function `uuid::compare`.

```c
=item int B<uuid::compare>(const uuid &_obj);
```

Regular method corresponding to the C API function `uuid::operator==`.

```c
=item int B<uuid::operator==>(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for equality.

```c
=item int B<uuid::operator!=(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for inequality.

```c
=item int B<uuid::operator<lt>(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for less-than.

```c
=item int B<uuid::operator<lt>=>(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for less-than-or-equal.

```c
=item int B<uuid::operator<gt>(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for greater-than.

```c
=item int B<uuid::operator<gt>=>(const uuid &_obj);
```

The comparison operator corresponding to `uuid::compare` usage for greater-than-or-equal.

```c
=item void B<uuid::import>(const void *_bin);
```

Regular method corresponding to the C API function `uuid_import` for binary representation usage.

```c
=item void B<uuid::import>(const char * _str);
```

Regular method corresponding to the C API function `uuid_import` for string representation usage.

```c
=item void *B<uuid::binary>(void);
```

Regular method corresponding to the C API function `uuid_export` for binary representation usage.

```c
=item char *B<uuid::string>(void);
```
Regular method corresponding to the C API function `uuid_export` for string representation usage.

```c
=item char *B<uuid::integer>(void);
```

Regular method corresponding to the C API function `uuid_export` for single integer value representation usage.

```c
=item char *B<uuid::summary>(void);
```

Regular method corresponding to the C API function `uuid_export` for textual summary representation usage.

```c
=item unsigned long B<uuid::version>(void);
```

Regular method corresponding to the C API function `uuid_version`.

```c
=item B<uuid_error_t>()
```

The standard constructor for `uuid_error_t` class.

```c
=item B<uuid_error_t>(uuid_rc_t _code)
```

The standard constructor for `uuid_error_t` class with return code initialization.

```c
=item ~B<uuid_error_t>()
```

The standard destructor for `uuid_error_t` class.

```c
=item void B<uuid_error_t::code>(uuid_rc_t _code)
```

Regular method for setting the return code.

```c
=item uuid_rc_t B<uuid_error_t::code>(void)
```

Regular method for fetching the return code.

```c
=item char *B<uuid_error_t::string>(void)
```

Regular method for fetching the string corresponding to the current return code.

=back

=head1 EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

```c
/* generate a DCE 1.1 v1 UUID from system environmement */
```
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id_ns;
    char *str;

    id_ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id_ns, url);
    str = id.string();
    return str;
}

=seealso SEE ALSO

uuid(3).

=cut

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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
*/

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1.932 libkrbsupport 1.17 6ubuntu4.1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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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
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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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  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializer.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/$Gson$Preconditions.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Excluder.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializationContext.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonArray.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Since.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Primitives.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonElement.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/GsonBuilder.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingPolicy.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/InstanceCreator.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingStrategy.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/DefaultDateTypeAdapter.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Until.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/SerializedName.java
  * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Expose.java

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  jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

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  jar/com/google/gson/internal/$Gson$Types.java

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  jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java

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1.941 certifi 2019.11.28

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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:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRC$File: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.942 pyjwt 1.4.0

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==============

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==========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
group, 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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Mersenne Twister

The `_random' module includes code based on a download from 'http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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====================================
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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==============

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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Mersenne Twister
--------------

The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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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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rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling.
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
Copyright (C) <year>  <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

--------------
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=
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of the library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

--mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
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> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike
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: 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.

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Happy now? :-)

-a

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.956 netbase 6.1

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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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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.)

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/SingletonListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/LoopingIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EnumerationIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/CollatingIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/FilterListIterator.java
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* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/bidimap/TreeBidiMap.java
* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/list/AbstractLinkedList.java
* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/FastArrayList.java
* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/list/SetUniqueList.java
* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/BeanMap.java
* /opt/cola/permits/110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/map/MultiValueMap.java

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  jar/org/apache/commons/collections/map/AbstractSortedMapDecorator.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/KeyValue.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/map/LazySortedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/OrderedBidiMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/bag/UnmodifiableBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/keyvalue/MultiKey.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/CompositeMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/UniquePredicate.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/WhileClosure.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InstantiateFactory.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/MapTransformer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FunctorException.java
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  jar/org/apache/commons/collections/map/AbstractReferenceMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/bag/AbstractMapBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/FactoryUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/DefaultMapBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/DoubleOrderedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/SequencedHashMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/BufferUnderflowException.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BoundedCollection.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/TransformerUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BufferOverflowException.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/SetUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/CursorableLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Factory.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BagUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/ReferenceMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Buffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ComparatorUtils.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/UnboundedFifoBuffer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/TreeBag.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/HashBag.java
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  jar/org/apache/commons/collections/keyvalue/AbstractMapEntryDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/keyvalue/UnmodifiableMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/keyvalue/DefaultKeyValue.java
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  jar/org/apache/commons/collections/keyvalue/DefaultMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
  jar/org/apache/commons/collections/functors/StringValueTransformer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AnyPredicate.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/SwitchTransformer.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FunctorUtils.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/HashBag.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/list/CursorableLinkedList.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/map/StaticBucketMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/iterators/ObjectGraphIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/list/AbstractSerializableListDecorator.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/iterators/EmptyListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2.jar/org/apache/commons/collections/iterators/LoopingListIterator.java
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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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AES in libhcrypto

rijndael-alg-fst.c

Version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

package main

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Go support for Protocol Buffers - Google's data interchange format

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fields:
    site: string
    author: root

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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 metrics from the pseudo-filesystem proc.

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1.983 more-iter-tools 8.12.0
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1.985 pyjwt 1.5.1

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1.986 base-passwd 3.5.47

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'T License: ' + self.distribution.get_license(),

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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/dist.py

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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
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extensions-3.9.5/3.8/Lib/lib2to3/tests/test_pytree.py
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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.9/Lib/lib2to3/__init__.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/parse.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/__init__.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/literals.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/conv.py

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*********************************************************************/

Found in path(s):
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.9/Modules/_tkinter.c
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.9/Lib/lib2to3/__init__.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.7/Lib/lib2to3/literals.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.7/Lib/lib2to3/conv.py

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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stlplib-extensions-3-8-10-orig-tar-xz/python3-stlplib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/conv.py

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# version.

Found in path(s):

```bash
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.9/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.10/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.7/Lib/lib2to3/pgen2/literals.py
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  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/conv.py
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  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/literals.py
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  extensions-3.9.5/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-org-tar-xz/python3-stdlib-
  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/parse.py
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  extensions-3.9.5/3.7/Lib/lib2to3/pgen2/conv.py
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  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/literals.py
```
extensions-3.9.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/cygwinccompiler.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.3/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/cygwinccompiler.py

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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/pgen2/driver.py
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* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pgen2/driver.py

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ( | Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
              | NAME [Details] [Repeater]
              | '(' Alternatives ')' [Repeater]
              | '[' Alternatives ']
          )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

Found in path(s):
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-
  extensions-3.9.5/3.6/Lib/lib2to3/pgen2/PatternGrammar.txt
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-
  extensions-3.9.5/3.7/Lib/lib2to3/pgen2/PatternGrammar.txt
* /opt/cola/permits/1251806807_1641834346.32/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-
  extensions-3.9.5/3.10/Lib/lib2to3/pgen2/PatternGrammar.txt
1.988 x-oauth2 0.0.0-20190604053449-0f29369cfe45

1.988.1 Available under license:

```go
package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// RESOURCE represents...
type Resource struct {

}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}
```
// ResourcePage is a single page of RESOURCE results.
// type ResourcePage struct {
// pagination.LinkedPageBase
// }

// IsEmpty determines whether or not a page of RESOURCES contains any results.
// func (r ResourcePage) IsEmpty() (bool, error) {
// resources, err := ExtractResources(r)
// return len(resources) == 0, err
// }

// NextPageURL extracts the "next" link from the links section of the result.
// func (r ResourcePage) NextPageURL() (string, error) {
// var s struct {
// Links struct {
// Next string `json:"next"`
// Previous string `json:"previous"`
// } `json:"links"`
// } err := r.ExtractInto(&s)
// if err != nil {
// return "", err
// }
// return s.Links.Next, err
// }

// ExtractResources returns a slice of Resources contained in a single page of
// // results.
// func ExtractResources(r pagination.Page) ([]Resource, error) {
// var s struct {
// Resources []Resource `json:"resources"`
// } err := (r.(ResourcePage)).ExtractInto(&s)
// return s.Resources, err
// }

// Extract interprets any commonResult as a Resource.
// func (r commonResult) Extract() (*Resource, error) {
// var s struct {
// Resource *Resource `json:"resource"`
// } err := r.ExtractInto(&s)
// return s.Resource, err
// }

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.
If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple
commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self-contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
```
```bash
$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.
The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible
that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.
Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
    }

    // ListOptsBuilder allows extensions to add additional parameters to
    // the List request
    type ListOptsBuilder interface {
        ToResourceListQuery() (string, error)
    }

    // ListOpts provides options to filter the List results.
    type ListOpts struct {
    }

    // ToResourceListQuery formats a ListOpts into a query string.
    func (opts ListOpts) ToResourceListQuery() (string, error) {
        q, err := gophercloud.BuildQueryString(opts)
        return q.String(), err
    }
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
}
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

count := 0
  count++
  actual, err := resources.ExtractResources(page)
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
  return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleListResourcesSuccessfully(t)

  allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
  th.AssertNoErr(t, err)
  actual, err := resources.ExtractResources(allPages)
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleGetResourceSuccessfully(t)

  actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
  th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleCreateResourceSuccessfully(t)

  createOpts := resources.CreateOpts{
      Name: "resource two",
  }
actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!
We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:
### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID       string `json:"id"
    Name     string `json:"name"
```

AdminStateUp bool `json:"admin_state_up"`
Status string `json:"status"`
Subnets []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared bool `json:"shared"`

```go
type Network struct {
    ID string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
The above code confirms that `availability_zoneHints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
- [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
- [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
- [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
- [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

- Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

- When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

- [CONTRIBUTING](https://github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE]/docs/STYLEGUIDE.md: The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.989 libgssapiheimdal 7.7.0+dfsg 1ubuntu1

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Octave

lib/hcrypto/test_dh.c

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
   * @param securePort the secure port to redirect to.
   */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
   * @param secureScheme A scheme string like "https"
   */

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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipRequestCustomizer.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AbstractNetworkConnector.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpInputOverHTTP.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/EncodingHttpWriter.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/JDBCSessionIdManager.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/IPAccessHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/SessionIdManager.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ThreadLimitHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SocketCustomizationListener.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/MultiPartCleanerListener.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NegotiatingServerConnectionFactory.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/StatisticsHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/MemSession.java
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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/DebugHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ManagedAttributeListener.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/handler/AllowSymLinkAliasChecker.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/nio/package-info.java
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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/session/HashSessionManager.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/UserIdentity.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/Server.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/DebugListener.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/handler/ShutdownHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/handler/AbstractHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/handler/ResourceHandler.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/handler/ProxyConnectionFactory.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/ConnectorStatistics.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/HandlerWrapper.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/NetworkTrafficServerConnector.java
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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/ResponseWriter.java
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* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/session/package-info.java
* /opt/cola/permits/1113053003_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2.jar/org/eclipse/jetty/server/HttpChannelState.java
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1.1000 x-text 0.3.6

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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Generator: bdist_wheel (0.37.0)
Root-Is-Purelib: true
Tag: py3-none-any
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tests
Metadata-Version: 2.1
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Version: 1.0.0
Summary: DNA License Management Service (1.0.0)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: maglev-api (~=1.6.0)
Requires-Dist: maglev-internal-api (~=1.6.0)
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/BooleanType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/LengthFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/GYearType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/LongType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/DateTimeValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2.jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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lib/hcrypto/test_dh.c

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* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/annotations/IgnoreDescendants.java
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io.sundr.builder.internal.processor.BuildableProcessor
io.sundr.builder.internal.processor.ExternalBuildableProcessor

Found in path(s):
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* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/Annotations/BuildableReference java
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1044 zlib 1.2.7

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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
```
```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_glue.c
```
```
lib/libgss/g_imp_name.c
```
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/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
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.1057 gnupg-l10n 2.2.19 3ubuntu2.1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# PLY (Python Lex-Yacc)  Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
===========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:
import ply.lex as lex
import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

    import lex
    import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

    http://groups.google.com/group/ply-hack

Acknowledgments
================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example
 ======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#

tokens = ( 'NAME','NUMBER', 'PLUS','MINUS','TIMES','DIVIDE','EQUALS', 'LPAREN','RPAREN', )

def t_NUMBER(t):
    r'\d+'
```

```python
t_PLUS   = r'\+'
t_MINUS  = r'-'
t_TIMES  = r'\*
 t_DIVIDE = r'/'
t_EQUALS = r'='
t_LPAREN = r'('
t_RPAREN = r')'
t_NAME   = r'\[a-zA-Z_\][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
```
t.value = int(t.value)
return t

# Ignored characters
t_ignore = " 	"

def t_newline(t):
    r'\n+
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'") % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = {}

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \"%s\" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at \"%s\" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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* /opt/cola/permits/1110905356_1606871332.58/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-
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Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.
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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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1.1068 libkcrypto 1.17 6ubuntu4.1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
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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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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1.1079 kr-text 0.1.0

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1.1080 json-iterator-go 1.1.11

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1.1081 ubuntu-keyring 2020.02.11.2

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1.1082 licensemanager 1.0.0
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Metadata-Version: 2.1
Name: licensemanager
Version: 1.0.0
Summary: License Manager Python Service (1.0.0)
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN
Requires-Dist: maglev-appserver (==1.7.8)
Requires-Dist: maglev-api (==1.6.0)
Requires-Dist: idna (==2.7)
Requires-Dist: setuptools (==41.2.0)
Requires-Dist: click (==6.6)
Requires-Dist: Flask (==1.0.2)
Requires-Dist: Flask-SQLAlchemy (==2.3.2)
Requires-Dist: SQLAlchemy (==1.3.1)
Requires-Dist: flask-restplus (==0.10.1)
Requires-Dist: pandas (==0.22.0)
Requires-Dist: psycopg2 (==2.7.3.2)
Requires-Dist: APScheduler (==3.5.1)
Requires-Dist: python-dateutil (==2.6.1)
Requires-Dist: xhtml2pdf (==0.1b3)
Requires-Dist: gunicorn (==19.9.0)
Requires-Dist: packaging (==19.0)
Requires-Dist: Werkzeug (==0.16.1)
Requires-Dist: reportlab (==3.5.34)

#License Manager Service

**Installation**

+ Setup the dev environment as described in [maglev website](http://maglev.cisco.com/getstarted/setup/dev-setup-maglev/)

+ Run the following commands

  - `gradle clean buildPackage dist`
  - `gradle copy`

**Running the service locally**

+ In `licensemanager/configurations` change the value to `dev_mode` to `True` in `appconfig.ini`

+ In `licensemanager/configurations` change the value of `cluster` and `port` (debug port of postgres which is
exposed) to appropriate values

+ Run the gradle commands mentioned in the **Installation** phase (This is required only once)

+ Install the licensemanager wheel generated in the dist/staging/ directory

+ Start the vagrant VM with `vagrant up`

+ Start the service with `appctl start licensemanager`

+ `start` and `stop` script can be used to control the service from PyCharm IDE

- For development one can do python setup.py develop. this creates a symlink and therefore we do not need to install the whl for every small change
- To run the test we need to gradle :licensemanager:tests

**Service Deployment on Cluster**

+ To deploy the service on the cluster make sure you have set the value of `dev_mode` to `False`

+ Run the `gradle` commands mentioned above, and place the generated tar.gz from `licensemanager/dist/` into `catalog/managerappstack/licensemanager/`

+ Run `maglev catalog push catalog` to push the artifact to cluster

+ Run `maglev package deploy licensemanagerpackage` to deploy the package

**Warning**:

+ When you are building the service on MAC/Windows the wheel files downloaded will be specific to the local environment which will not get installed on the cluster
+ To overcome the above problem, the Linux based wheels for all the wheels required for license manager are added in `linuxwheels` folder.
+ After successfully building the tar.gz you can run `repkgWheel.sh` script which will repackage the tar with Linux wheels, and copy the new artifact to catalog directory.

*if there are any issues during deployment feel free to contact srihpall/kartikbh*

Found in path(s):

* /opt/cola/permits/1090636643_1603899961.85/0/licensemanager-1.0.0-dist-info-zip/packages/4/licensemanager-1.0.0.dist-info/METADATA
1.1083 oscrypto 1.2.1
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1.1085 lsb 11.1.0ubuntu2
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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: LSB implementation package

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1.1086 markupsafe 2.0.1

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1.1087 snake-yaml 1.27

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1.1088 scalap 2.10.0

1.1089 gogoprotobuf 1.3.2

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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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1.1090 psutil 5.6.6
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1.1091 govmomi 0.18.0
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*/

package license

import (  
  "context"  
  "flag"
)
type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", ", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}
func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }
    var id string
    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Uuid
        }
    } else {
        id = host.Uuid
    }
    return m.AssignLicense(ctx, key, id)
}
id = cluster.Reference().Value

} else {
  id = host.Reference().Value
}

if cmd.remove {
  return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
  return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

/*

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*/

package license

import (
  "context"
  "flag"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
*flags.ClientFlag
*flags.OutputFlag

feature string
}

func init() {
cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}
package license

import (
    "context"
    "flag"
    "fmt"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
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*/

package simulator

import (
    "context"
    "reflect"
    "testing"

    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

    defer m.Remove()
}
err := m.Create()
if err != nil {
  t.Fatal(err)
}

s := m.Service.NewServer()
def s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
  t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
  t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
  t.Fatal(err)
}

if len(la) != 0 {
  t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/..."
if err != nil {
  t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
  la, err = am.QueryAssigned(ctx, name)
  if err != nil {
    t.Fatal(err)
  }
}

if len(la) != 1 {
  t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
m := ESX()

def m.Remove()

er := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
def s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()
defer m.Remove()

err := m.Write()
if err != nil {
    t.Fatal(err)
}

d := m.Service.NewServer()
deferr := d.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
    info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key: value}; got {s:s}", la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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package simulator

import (  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vm25/methods"  
    "github.com/vmware/govmomi/vm25/mo"  
    "github.com/vmware/govmomi/vm25/soap"  
    "github.com/vmware/govmomi/vm25/types"  
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "000000-00000-00000-00000-00000-00000",
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
        }
    }
}

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m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type:  "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }
}

//
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    infoLICENSEKey = key
    info.Labels = labels

    return info
}

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type decode struct {
*flags.ClientFlag
*flags.OutputFlag

feature string

func init() {
cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ":", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY...
"
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
    }
}
result = append(result, license)
}

if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

# People who can (and typically have) contributed to this repository.
#
# This script is generated by contributors.sh
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*/

package license

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
func (m Manager) Remove(ctx context.Context, key string) error {
  req := types.RemoveLicense{
    This: m.Reference(),
    LicenseKey: key,
  }

  _, err := methods.RemoveLicense(ctx, m.Client(), &req)
  return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
  req := types.UpdateLicense{
    This: m.Reference(),
    LicenseKey: key,
    Labels: mapToKeyValueSlice(labels),
  }

  res, err := methods.UpdateLicense(ctx, m.Client(), &req)
  if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
  }

  return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
  var mlm mo.LicenseManager
  err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
  if err != nil {
    return nil, err
  }

  return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
  var mlm mo.LicenseManager
  err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
  if err != nil {
    return nil, err
  }

  if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
  }

  return mlm.LicenseAssignmentManager, nil
}
am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        lf := parseLicenseFeature(kv.Key)
if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }
    return result
}

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```go
package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
```
func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }

    return nil
}

package license

import {
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"

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*/

package license
type assigned struct {
*flags.ClientFlag
*flags.OutputFlag
id string
}

func init() {
cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }
    return nil
}
return err
}

return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

import (  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"  
    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {  
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)  
fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")  
for _, v := range res {  
fmt.Fprintf(tw, "%s	", v.LicenseKey)  
fmt.Fprintf(tw, "%s	", v.EditionKey)  
fmt.Fprintf(tw, "%d	", v.Used)  
fmt.Fprintf(tw, "%d	", v.Total)  
fmt.Fprintf(tw, "\n")  
fmt.Fprintf(tw, "\n")}
#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if ! [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[] | select(.LicenseKey == "$1")"
}

get_property() {
    jq -r ".Properties[] | select(.Key == "$1") | .Value"
}

@test "license.add" {
    esx_env

    verify_evaluation

    assert_success

    # Expect to see an entry for both the first and the second key
    assert_equal "License is not valid for this product" 
    "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00001 <<<$output) | get_property diagnostic)"

    assert_equal "License is not valid for this product" 
    "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00002 <<<$output) | get_property diagnostic)"
}

@test "license.remove" {
    esx_env

    verify_evaluation

    run govc license.remove -json 00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00001
    assert_success
}

@test "license.ls" {
    vcsim_env
verify_evaluation

run govc license.ls -json
assert_success

# Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" "$(get_key "00000-00000-00000-00000-00000 $output | jq ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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package license

import (
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res, nil
}
func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

1.1092 libprelude 5.1.1-5
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1.1093 urllib3 1.25.8
1.1093.1 Available under license :
    # Contributions to the urllib3 project
    
    ## Creator & Maintainer
    
    * Andrey Petrov <andrey.petrov@shazow.net>

    ## Contributors
In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors
* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* 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]

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Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-
  375dc46/LICENSE.rst
No license file was found, but licenses were detected in source scan.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```

---

A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```
arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

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1.1101 libmpfr6 4.0.2-1

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GNU `sdiff' was written by Thomas Lord. GNU `cmp' was written by
Torbjorn Granlund and David MacKenzie.

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### 1.1113 kubernetes-client 0.22.1

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1.1115 cron 3.0pl1 136ubuntu1
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 */

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron-tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. You should check this out.

```
say:
make all

su and say:
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
creontab -u news -r /usr/lib/news/crontab.src
creontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux` and look for `/etc/cron`.

Edit your `/etc/rc` or `/etc/rc.local`, looking for the line that starts up `/etc/cron`. Comment it out and add a line to start the new cron daemon -- usually `/usr/local/etc/cron`, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type `/usr/local/etc/cron` (or whatever); no `&` is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL

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# */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]```
This is a version of ‘cron’ that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for ‘at’; you can continue to run ‘atrun’ from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/[rc.rc.local] to use it instead of the old one.
Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orgitar-bz2/cron-3-0pl1-orgitar-gz/cron-
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/* */
/*
$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
/*

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orgitar-bz2/cron-3-0pl1-orgitar-gz/cron-
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/do_command.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/env.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/misc.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/job.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/cron.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/config.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/database.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/crontab.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/cron.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/user.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/compat.c

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* @(#)bitstring.h5.2 (Berkeley) 4/4/90
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Lambda */
Lambda
Lambda $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1126 opentracing-noop 0.31.0

1.1127 go-jmespath 0.0.0-20180206201540-c2b33e8439af

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1.1128 adduser 3.118ubuntu2

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1.1130 thriftpy 0.3.9
1.1130.1 Available under license:
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: thriftpy
Version: 0.3.9
Summary: Pure python implementation of Apache Thrift.
Home-page: https://thriftpy.readthedocs.org/
ThriftPy is a pure python implementation of `Apache Thrift <http://thrift.apache.org/>`_ in a pythonic way.

Documentation: https://thriftpy.readthedocs.org/

Installation
=============

Install with pip.

.. code:: bash

    $ pip install thriftpy

You may also install cython first to build cython extension locally.

.. code:: bash

    $ pip install cython thriftpy

Code Demo
==========

ThriftPy make it super easy to write server/client code with thrift. Let's checkout this simple pingpong service demo.

We need a `pingpong.thrift` file:
service PingPong {
    string ping(),
}

Then we can make a server:

.. code:: python

    import thriftpy
    pingpong_thrift = thriftpy.load("pingpong.thrift", module_name="pingpong_thrift")

    from thriftpy.rpc import make_server

    class Dispatcher(object):
        def ping(self):
            return "pong"

    server = make_server(pingpong_thrift.PingPong, Dispatcher(), '127.0.0.1', 6000)
    server.serve()

And a client:

.. code:: python

    import thriftpy
    pingpong_thrift = thriftpy.load("pingpong.thrift", module_name="pingpong_thrift")

    from thriftpy.rpc import make_client

    client = make_client(pingpong_thrift.PingPong, '127.0.0.1', 6000)
    print(client.ping())

See, it's that easy!

You can refer to 'examples' and 'tests' directory in source code for more usage examples.

Features
========

Currently ThriftPy have these features (also advantages over the upstream python lib):
- Supports python2.6+, python3.3+, pypy and pypy3.

- Pure python implementation. No longer need to compile & install the ‘thrift’ package. All you need is thriftpy and thrift file.

- Compatible with Apache Thrift. You can use ThriftPy together with the official implementation servers and clients, such as a upstream server with a thriftpy client or the opposite.

Currently implemented protocols and transports:

* binary protocol (python and cython)

* compact protocol (python and cython)

* json protocol

* buffered transport (python & cython)

* framed transport

* tornado server and client (with tornado 4.0)

- Can directly load thrift file as module, the sdk code will be generated on the fly.

For example, ```pingpong_thrift = thriftpy.load("pingpong.thrift", module_name="pingpong_thrift")``` will load 'pingpong.thrift' as 'pingpong_thrift' module.

Or, when import hook enabled by ```thriftpy.install_import_hook()```, you can directly use ```import pingpong_thrift``` to import the 'pingpong.thrift' file as module, you may also use ```from pingpong_thrift import PingService``` to import specific object from the thrift module.

- Easy RPC server/client setup.

Contribute
==========

1. Fork the repo and make changes.

2. Write a test which shows a bug was fixed or the feature works as expected.

3. Make sure ```travis-ci``` or ```tox``` tests succeed.
4. Send pull request.

Contributors
==============

https://github.com/eleme/thriftpy/graphs/contributors

Changelog
==========

https://github.com/eleme/thriftpy/blob/master/CHANGES.rst

Keywords: thrift python thriftpy
Platform: UNKNOWN
Classifier: Topic :: Software Development
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy

Found in path(s):
* /opt/cola/permits/1112217963_1607050005.29/0/thriftpy-0-3-9-1-tar-gz/thriftpy-0.3.9/thriftpy.egg-info/PKG-INFO
* /opt/cola/permits/1112217963_1607050005.29/0/thriftpy-0-3-9-1-tar-gz/thriftpy-0.3.9/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1112217963_1607050005.29/0/thriftpy-0-3-9-1-tar-gz/thriftpy-0.3.9/setup.py

1.1131 libldap 2.4.49+dfsg 2ubuntu1.8

1.1131.1 Available under license:

This package was downloaded from:

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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
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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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Regards, Kurt

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==============
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1.1136 cryptography 2.8-2.ph3

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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
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modification of the work for the customer's own use and reverse
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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1138 libc-dev 2.31-0ubuntu9.2

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.1139 pytzdata 2020.1
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1.1140 jetty-xml 9.3.27.v20190418

1.1141 httpclient 4.5.13
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1.1143 objx 0.1.1

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1.1144 mitchellh-copystructure 1.0.0

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1.1145 pam 1.3.1-5ubuntu4.3

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1.1147 strongswan 5.9.0

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jar/org/springframework/asm/TypeReference.java
* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1-
jar/org/springframework/asm/TypePath.java
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* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1-jar/org/springframework/util/xml/StaxEventHandler.java
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* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1-jar/org/springframework/util/MultiValueMap.java
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* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1.jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1.jar/org/springframework/util/CompositeIterator.java
* /opt/cola/permits/1120453632_1609951998.52/0/spring-core-4-3-29-release-sources-1.jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
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### 1.1153 woodstox-core 6.2.0

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### 1.1154 go-runtime 1.17.1

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man/stringlist.3bsd
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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
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6. As an exception to the Sections above, you may also combine or
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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