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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------
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Automated Testing Framework

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

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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 3a0982da308228d796df35f98d787c5c5f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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1.9 dropwizard-client 1.3.29
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1.10 python-debian 0.1.32

1.10.1 Available under license:

```python
#!/usr/bin/python

# vim: fileencoding=utf-8
#
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'''Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

    find /tmp/packages -type f -name copyright | check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program output less verbose.

```
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = {}
    parse_failures = []
    dump_failures = []

    total = 0
    for filename in sys.stdin:
        total += 1
        filename = filename.rstrip()
        with io.open(filename, mode='rt', encoding='utf-8') as f:
            try:
                c = copyright.Copyright(f)
            except Exception as e:
                problems.setdefault((1, 'Parse failures'), []).append((filename, e))
                continue

            try:
                c.dump()
            except Exception as e:
                problems.setdefault((2, 'Dump failures'), []).append((filename, e))

            if not c.header.known_format():
                problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

    invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
for glob in p.files:
    if glob.startswith('/.'):  
        globs_with_leading_dot_slash.append(glob)
    if glob.endswith(','):  
        globs_with_trailing_comma.append(glob)
    if '**' in glob:
        globs_with_double_star.append(glob)
if invalid_globs:
    problems.setdefault((4, 'Invalid glob'), []).append(
        (filename, invalid_globs))
if globs_with_leading_dot_slash:
    problems.setdefault((5, 'Globs with leading ./'), []).append(
        (filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
    problems.setdefault((6, 'Globs with trailing ,'), []).append(
        (filename, globs_with_trailing_comma))
if globs_with_double_star:
    problems.setdefault((7, 'Globs with **'), []).append(
        (filename, globs_with_double_star))

f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
    f.write('
%s: (%d / %d)
' % (heading, len(problems), total))
    if not args.summary:
        for filename, problem in problems:
            f.write(' %s: %s
' % (filename, problem))

if __name__ == '__main__':
    main()
# vim: fileencoding=utf-8
#
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Utilities for parsing and creating machine-readable debian/copyright files.

The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Copyright docstring for usage information.

from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = (  
'http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)

_KNOWN_FORMATS = frozenset(

_CURRENT_FORMAT,
# TODO(jsw): Transparently rewrite https:// as http://, at least for this?
'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
)

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
paragraphs, in addition to adding new ones. It also provides a mechanism
for finding the Files paragraph (if any) that matches a particular
filename.

Typical usage:

```python
with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
    c = copyright.Copyright(f)

    header = c.header
    # Header exposes standard fields, e.g.
    print('Upstream name: ', header.upstream_name)
    lic = header.license
    if lic:
        print('Overall license: ', lic.synopsis)
    # You can also retrieve and set custom fields.
    header['My-Special-Field'] = 'Very special'

    # Find the license for a given file.
    paragraph = c.find_files_paragraph('debian/rules')
    if paragraph:
        print('License for debian/rules: ', paragraph.license)

    # Dump the result, including changes, to another file.
    with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
        c.dump(f=f)
```

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.

    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
        NotMachineReadableError if `sequence` does not contain a
        machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__(sequence=sequence, encoding=encoding)
```
self.__paragraphs = []

if sequence is not None:
    paragraphs = list(deb822.Deb822.iter_paragraphs(
        sequence=sequence, encoding=encoding))
if not paragraphs:
    raise NotMachineReadableError('no paragraphs in input')
self.__header = Header(paragraphs[0])
for i in range(1, len(paragraphs)):
    p = paragraphs[i]
    if 'Files' in p:
        p = FilesParagraph(p)
    elif 'License' in p:
        p = LicenseParagraph(p)
    else:
        warnings.warn('Non-header paragraph has neither "Files"
                        nor "License" fields')
    self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph."""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).
    The header (returned first) will be returned as a Header object; file paragraphs as FilesParagraph objects; license paragraphs as LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs
    see all_paragraphs() for more information
    """
return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects."
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    """
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')
    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file."""
If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.

```
return_string = False
if f is None:
    return_string = True
f = io.StringIO()
self.header.dump(f, text_mode=True)
for p in self.__paragraphs:
    f.write('
')
    p.dump(f, text_mode=True)
if return_string:
    return f.getvalue()
```

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '
' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.
    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple."""
        return tuple(v for v in
            (line.strip() for line in (s or '').strip().splitlines())
        if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None

        def process_and_validate(s):
s = s.strip()
if not s:
    raise ValueError('values must not be empty')
if 'un' in s:
    raise ValueError('values must not contain newlines')
return s

if len(l) == 1:
    return process_and_validate(l[0])

tmp = ['']
for s in l:
    tmp.append(' ' + process_and_validate(s))
return '\n'.join(tmp)

class _SpaceSeparated(object):
    '''Namespace for conversion methods for space-separated lists as tuples.'''
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
    def from_str(s):
        '''Returns the values in s as a tuple (empty if only whitespace).'''
        return tuple(v for v in (s or '').split() if v)

    @classmethod
    def to_str(cls, seq):
        '''Returns the sequence as a space-separated string (None if empty).'''
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError('values must not contain whitespace')
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            tmp.append(s)
        return ' '.join(tmp)

    # TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    '''Formats multiline text for insertion in a Deb822 field.'
Each line except for the first one is prefixed with a single space. Lines that are blank or only whitespace are replaced with ' .'

```python
if s is None:
    return None
return format_multiline_lines(s.splitlines())
```

```python
def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '.
            line = ' ' + line
            out_lines.append(line)
    return '\n'.join(out_lines)
```

```python
def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must replace all-whitespace lines with ' .'. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ' ') from each proceeding line.
    - Replaces any line that is ' .' with an empty line.
    """
    if s is None:
        return None
    return '\n'.join(parse_multiline_as_lines(s))
```

```python
def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)"""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
```
if line == '.':
line = ''
lines[i] = line
return lines

class License(collections.namedtuple('License', 'synopsis text')):
"""Represents the contents of a License field. Immutable."""
def __new__(cls, synopsis, text=''):
"""Creates a new License object.
:param synopsis: The short name of the license, or an expression giving
alternatives. (The first line of a License field.)
:param text: The full text of the license, if any (may be None). The
lines should not be mangled for "deb822"-style wrapping - i.e. they
should not have whitespace prefixes or single '.' for empty lines.
"""
return super(License, cls).__new__(
cls, synopsis=_single_line(synopsis), text=(text or ''))
@classmethod
def from_str(cls, s):
if s is None:
return None
lines = parse_multiline_as_lines(s)
if not lines:
return cls('')
return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))
def to_str(self):
return format_multiline_lines([self.synopsis] + self.text.splitlines())
# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
r"""Returns an re object for the given globs.
Only * and ? wildcards are supported. Literal * and ? may be matched via
\* and \?, respectively. A literal backslash is matched \\. Any other
character after a backslash is forbidden.
Empty globs match nothing.
Raises ValueError if any of the globs is illegal.

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buf = io.StringIO()
for i, glob in enumerate(globs):
    if i != 0:
        buf.write('|')
    i = 0
    n = len(glob)
    while i < n:
        c = glob[i]
        i += 1
        if c == '*':
            buf.write('.*')
        elif c == '?':
            buf.write('.')
        elif c == '\':
            if i < n:
                c = glob[i]
                i += 1
            else:
                raise ValueError('single backslash not allowed at end')
        if c in r'\?*':
            buf.write(re.escape(c))
        else:
            raise ValueError(r'invalid escape sequence: \%s' % c)
    else:
        raise ValueError('single backslash not allowed at end')
    if c in r'\$*':
        buf.write(re.escape(c))
    else:
        raise ValueError(r'invalid escape sequence: \%s' % c)

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

This kind of paragraph is used to specify the copyright and license for a
particular set of files in the package.
"""

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError('"Files" field required')

    # For the other "required" fields, we just warn for now. Perhaps
    # these should be upgraded to exceptions (potentially protected by
# a "strict" param).
if 'Copyright' not in data:
    warnings.warn('Files paragraph missing Copyright field')
if 'License' not in data:
    warnings.warn('Files paragraph missing License field')

if not self.files:
    warnings.warn('Files paragraph has empty Files field')

self.__cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

:param files: The list of file globs.
:param copyright: The copyright for the files (free-form text).
:param license: The Licence for the files.
"""
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

Caches the result until files is set to a different value.

Raises ValueError if any of the globs are invalid.
"""
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField('Files', from_str=_SpaceSeparated.from_str,
                          to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

    Minimally, this kind of paragraph requires a 'License' field and has no
    'Files' field. It is used to give a short name to a license text, which
can be referred to from the header or files paragraphs.
    """

def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError('"License" field required')
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file."""
Property values are all immutable, such that in order to modify them you must explicitly set them (rather than modifying a returned reference).

```python
def __init__(self, data=None):
    
    :param parsed: A deb822.Deb822 object for underlying data. If None, a new one will be created.

    if data is None:
        data = deb822.Deb822()
        data['Format'] = _CURRENT_FORMAT

    if 'Format-Specification' in data:
        warnings.warn('use of deprecated "Format-Specification" field; rewriting as "Format"')
        data['Format'] = data['Format-Specification']
        del data['Format-Specification']

    super(Header, self).__init__(data)

    fmt = self.format
    if fmt is None:
        raise NotMachineReadableError('input is not a machine-readable debian/copyright')
    if fmt not in _KNOWN_FORMATS:
        warnings.warn('format not known: %r' % fmt)

    def known_format(self):
        
        return self.format in _KNOWN_FORMATS

    def current_format(self):
        
        return self.format == _CURRENT_FORMAT

    format = deb822.RestrictedField('Format', to_str=_single_line, allow_none=False)

    upstream_name = deb822.RestrictedField('Upstream-Name', to_str=_single_line)

    upstream_contact = deb822.RestrictedField('Upstream-Contact', from_str=_LineBased.from_str,
                                                              to_str=_LineBased.to_str)

    source = deb822.RestrictedField('Source')
```
disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
  Copyright (C) 2006-2010 John Wright <john@johnwright.org>
  Copyright (C) 2006 Adeodato Sim <dato@net.com.org.es>
  Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
  Copyright (C) 2014 Google, Inc.
License: GPL-2+

Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py
Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
  Copyright (C) 2008 Canonical Ltd.
License: GPL-2+
Comment: lib/debian/changelog.py's parsing code is based on that from dpkg which is:
  Copyright 1996 Ian Jackson
  Copyright 2005 Frank Lichtenheld <frank@lichtenheld.de>
and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py
Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>
  Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
  Copyright (C) 2010 John Wright <jsw@debian.org>
License: GPL-2+
Files:
examples/debtags/*
lib/debian/debtags.py
lib/debian/doc-debtags
lib/debian/tests/test_debtags.py
Copyright: Copyright (C) 2003-2007 Enrico Zini <enrico@debian.org>
License: GPL-3+

Files:
examples/debfile/*
lib/debian/arfile.py
lib/debian/debfile.py
lib/debian/tests/test_debfile.py
Copyright: Copyright (C) 2007-2008 Stefano Zacchiroli <zack@debian.org>
Copyright (C) 2007 Filippo Giunchedi <filippo@debian.org>
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Files:
lib/debian/deprecation.py
Copyright: Copyright (C) Ben Finney <ben+debian@benfinney.id.au>
License: GPL-2+

Files:
examples/copyright/*
lib/debian/copyright.py
lib/debian/tests/test_copyright.py
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1.11 ca-certificates 20210119~18.04.1

1.11.1 Available under license:
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: 2013 System Administrator <root@localhost.localdomain>
License: ...
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: debian/*
  examples/*
  Makefile
  mozilla/*
  sbin/*
Copyright: 2003 Fumitoshi UKAI <ukai@debian.or.jp>
  2009 Philipp Kern <pkern@debian.org>
  2011 Michael Shuler <michael@pbandjelly.org>
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Files: mozilla/certdata.txt
       mozilla/nssckbi.h
Copyright: Mozilla Contributors
Comment: Original Copyright: 1994-2000 Netscape Communications Corporation
       (certdata.txt <= CVS Revision: 1.82)
       NSS no longer contains explicit copyright. Upstream indicates that "Mozilla Contributors" is an appropriate attribution for the required Copyright: field in Debian's machine-readable format.
       https://bugzilla.mozilla.org/show_bug.cgi?id=850003
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1.12 chardet 3.0.4 1

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Upstream-Name: chardet
Upstream-Contact: Daniel Blanchard <dan.blanchard@gmail.com>
Source: https://pypi.python.org/pypi/chardet

Files: *
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1.13 go-redis-redis 5.2.9

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1.14 systemd 237 3ubuntu10.46

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October 28, 1997

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Sam Lantinga(slouken@libsdl.org)

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1.17 asn1crypto 0.24.0-1

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## version 0.1
##
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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.

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## Constant-time SSSE3 AES core implementation.

### version 0.1

### By Mike Hamburg (Stanford University), 2009

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1.22 json 2.4.1

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1.37 initramfs-tools 0.130ubuntu3.13
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The current Ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
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1.39 libdevmapper 2:1.02.145

4.1ubuntu3.18.04.3

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#!/usr/bin/env python
#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively searched.
If the license cannot be found, then the filename is printed to stdout.

Typical usage:

\$ check-license.py . > bad-files

-C switch is used to change licenses.

Typical usage:

\$ check-license.py -C file1 file2 ... fileN

import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

OLD_LICENSE = ''

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SH_OLD_LICENSE = re.subn(r'(?m)^ *\*', '#', OLD_LICENSE)[0]

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
# is used for matching; NEW_LICENSE is inserted as-is.

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

SH_NEW_LICENSE = re.subn(r'^\(\?m\)\*\', '#', NEW_LICENSE)[0]

re_OLD = re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(r'automatically generated by SWIG'
  + r'|Generated from configure.in'
  + r'|placed into the public domain'
  )

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()

def check_file(fname, old_re, new_lic):
  s = open(fname).read()
  if (not old_re.search(s)
    and not re_EXCLUDE.search(s)):
    print(fname)

def change_license(fname, old_re, new_lic):
  s = open(fname).read()
  m = old_re.search(s)
  if not m:
    print('ERROR: missing old license: %s' % fname)
  else:
    s = s[:m.start()] + new_lic + s[m.end():]
    open(fname, 'w').write(s)
    print('Changed: %s' % fname)
def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue
        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

def main():
    file_func = check_file
    if sys.argv[1] == '-C':
        print('Changing license text...')
        del sys.argv[1]
        file_func = change_license

    for f in sys.argv[1:]:
        if os.path.isdir(f):
            baton = file_func
            for dirpath, dirs, files in os.walk(f):
                visit(baton, dirpath, dirs + files)
        else:
            baton = file_func
            dir, i = os.path.split(f)
            visit(baton, dir, i)

    if __name__ == '__main__':
        main()

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1.41 sigdump 0.2.4

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1.42 kubernetes-client 0.0.0-20190620085101-78d2af792bab

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1.44 httprouter 1.2.0

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1.45 apiextensions-apiserver 0.18.0

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1.46 vl53l0x-c-api 5.15.10

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1.47 zap 1.13.0

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1.48 js-yaml 4.1.0

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1.49 python-certifi 2021.10.8

1.49.1 Available under license :
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#) SRCsfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $

1.50 containerd v1.3.2
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Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.

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

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{"the name", "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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1.74 certifi 2021.10.8

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

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.75 go-autorest 11.2.8+incompatible

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1.78 go-runtime 1.12.8

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1.84 tmux 2.6-3ubuntu0.2

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1.90 golang-snappy 0.0.1

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1.91 write-file-atomic 3.0.3

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1.94 urllib3 1.26.7

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1.95 armon-go-metrics 0.0.0-20190430140413-ec5e00d3c878

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1.96 structured-merge-diff 4.0.1

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1.97 liblockfile 1.14-1.1

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>


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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/gssapi/mechglue/g_compare_name.c
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lib/kdb/iprop.x
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* /opt/ws_local/PERMITS_SQL/1069127318_1594491641.29/0/logging-interceptor-3-12-12-sources-jar/okhttp3/logging/LoggingEventListener.java

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitInputStream.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Kim.java

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1.138 statuses 1.5.0

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1.139 github.com/fletavendor/yaml.v2

2.1.0+incompatible

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1.141 luajit 2.1.0.beta3

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1.143 deepmerge 3.2.0

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1.144 prometheus-client 0.9.0

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1.145 libargon 0~20161029-1.1

1.145.1 Available under license:
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1.146 x-time-rate 0.0.0-20191024005414-555d28b269f0

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1.147 ptyprocess 0.5.2 1

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1.148 goprotobuf v1.2.0
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1.149 zlib 1.2.8
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1.150 go-autorest-validation 0.2.0
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1.151 azure-storage-blob-go 0.8.0

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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.)

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Whether this is true is especially significant if the work can be
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   If such an object file uses only numerical parameters, data
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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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   Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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1.155 protobuf v1.25.0

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1.160 jakarta-annotation-api 1.3.4

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1.164 python3-prometheus-client 0.1.1-1

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1.167 libpython 3.6.9 1~18.04ubuntu1.4

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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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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard
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--------------------------

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-------

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

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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### 1.183 protocol-http1 0.13.2

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# Protocol::HTTP1

Provides a low-level implementation of the HTTP/1 protocol.


## Installation

Add this line to your application's Gemfile:

```ruby
`gem 'protocol-http1`
```

And then execute:

```bash
$ bundle
```

Or install it yourself as:
$ gem install protocol-http1

## Usage

Here is a basic HTTP/1.1 client:

```ruby
require 'async'
require 'async/io/stream'
require 'async/http/endpoint'
require 'protocol/http1/connection'
Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.google.com/search?q=kittens", alpn_protocols: ["http/1.1"])
  peer = endpoint.connect
  puts "Connected to #{peer} #{peer.remote_address.inspect}"

  # IO Buffering...
  stream = Async::IO::Stream.new(peer)
  client = Protocol::HTTP1::Connection.new(stream)

  def client.read_line
    @stream.read_until(Protocol::HTTP1::Connection::CRLF) or raise EOFError
  end

  puts "Writing request..."
  client.write_request("www.google.com", "GET", "/search?q=kittens", "HTTP/1.1", ["Accept", "/*"])
  client.write_body(nil)

  puts "Reading response..."
  response = client.read_response("GET")

  puts "Got response: #{response.inspect}"

  puts "Closing client..."
  client.close
end
```

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1. Fork it
2. Create your feature branch ("git checkout -b my-new-feature")
3. Commit your changes (" git commit -am 'Add some feature'")
4. Push to the branch (" git push origin my-new-feature")
5. Create new Pull Request
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Found in path(s):
* /opt/cola/permits/1152135410_1618097508.32/0/socketry-protocol-http1-v0-13-2-0-ge8291e8-tar-gz/socketry-protocol-http1-78e531b/README.md

### 1.184 json-schema 0.4.0

#### 1.184.1 Available under license:

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$properties->license = License::schema();

Found in path(s):
* /opt/cola/permits/1231169960_1637613933.15/0/swaggest-php-json-schema-v0-4-0-0-gdfb0dd7-zip/swaggest-php-json-schema-dfb0dd7/src/SwaggerSchema/Info.php

### 1.185 vim 8.0.1453-1ubuntu1.6
1.186 read-package-json 4.1.1

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1.187 go-runtime 1.13.4

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1.191 github.com/projectcalico/go-json
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1.192 npm-packlist 3.0.0

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1.193 helm 2.16.10+incompatible

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1.194 apt-utils 1.6.14

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.199 argparse 1.0.10
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1.201 go-openapi-spec 0.20.3

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package spec

import (  
    "encoding/json"  
    "testing"
)

"github.com/stretchr/testify/assert"

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

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`
func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name
    // url: the url"

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

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

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    package spec

    import {
        "encoding/json"

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

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

    // LicenseProps holds the properties of a License object
type LicenseProps struct {

Name string `json:"name,omitempty"`
URL string `json:"url,omitempty"`

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

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

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Fortuna in libhcrypto

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AES in libhcrypto

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

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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# Contributions to the urllib3 project

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## Contributors
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  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

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

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

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

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

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

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

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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

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

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

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabababacaba@gmail.com>
* Bugfixes

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

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

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

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

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

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

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

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

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

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

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

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.
* Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.
* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

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

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

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

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

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

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

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

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

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

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

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

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

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

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

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

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

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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.219 apache2-data 2.4.29-1ubuntu4.20

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This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

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- Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
- James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
- Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
- Old: directive URL [x,y ...]
- New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

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Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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1.221 python-idna 2.6 1

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The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
            rdjpgcom, and wrjpcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.
It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the inards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics/misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!
TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net. This package was debianised by Steve McIntyre <stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001. The maintainership was transferred in August 2003 to Andreas Barth <aba@not.so.argh.org>, first as cooperative maintainership and sponsored by Steve.

Packaging and keeping the package current is not simple, for details see README.Debian. We consider http://netpbm.alioth.debian.org/ the technical upstream, and this release can be exported out of alioth by
cvs -z3 -d:pserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export \
-r debian-9-25-2 netpbm

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==========

Netpbm has a very complicated licensing setup, as it is a collection of hundreds of small utility programs, each with an individual copyright/license. From inspection of the source and documentation in the package, I believe the following programs are DFSG-free. They have a variety of licenses, which I have summarised below for convenience.

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Programs actually included in this package:

411toppm:  (B) 2001  Steve Allen <sla@alumn.caltech.edu>
anytopnm:  (A) 1991  Jef Poskanzer
asciitopgm: (A) 1989  Wilson H. Bent, Jr
atktopbm:  (A) 1991  Bill Janssen
bioradtopgm: (A) 1993  Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm:  (A) 1992  David W. Sanderson (as bmptoppm)
brushtopbm: (A) 1988  Jef Poskanzer
cmuwmtopbm: (A) 1989  Jef Poskanzer
eyuvtoppm: (B) 1995  The Regents of the University of California
fiascotopnm: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm:  (A) 1989  Jef Poskanzer
fstopgm:   (A) 1989  Jef Poskanzer
g3topbm:   (A) 1989  Paul Haeberli <paul@manray.sgi.com>
gemtopnm:  (A) 1988  Diomidis D. Spinellis
giftopnm:  (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm: (A) 1990  Stephen P. Lesniewski
hipstopgm: (A) 1989  Jef Poskanzer
icontopbm: (A) 1988  Jef Poskanzer
ilbmtoppm: (A) 1989  Jef Poskanzer
imgtoppm:  (A) 1989  Jef Poskanzer
jpegtopnm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leaftoppm: (A) 1994  Bill O'Donnell
lisptopgpm: (A) 1988  Jef Poskanzer, Jamie Zawinski
macptopbm: (A) 1988  Jef Poskanzer
mdatopbm:  (C) 1999  John Elliott <jce@seasip.demon.co.uk>
mgrtopbm:  (A) 1989  Jef Poskanzer
mtvtoppm:  (A) 1989  Jef Poskanzer
neotoppm: (D) 2001  Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut:    (A) 1989  Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamdice     (H1) 2001  Bryan Henderson
pamfile:   (A) 1991  Jef Poskanzer
pamoil:    (A) 1990  Wilson Bent <whb@hoh-2.att.com>
pamstack   (H1) 2002  Bryan Henderson
pamstretch  (C) 1998,2000 Russell Marks (as pnminterp)
pamstretch-gen (H1) 1999  Russell Marks (as pnminterp-gen)
pbmclean:  (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife:   (A) 1988-1991 Jef Poskanzer
pbmmake: (A) 1988 Jef Poskanzer

pbmmask: (A) 1989-1991 Jef Poskanzer

pbmpage: (C) 1998 Tim Norman

pbmpscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan

pbmreduce: (A) 1989 Jef Poskanzer

pbmtextps: (A) 2002 James McCann

pbmtext: (A) 1991 Jef Poskanzer

pbmtol0x: (A) 1990-1994 Ken Yap

pbmtoaocii: (A) 1988-1992 Jef Poskanzer

pbmtoatk: (A) 1991 Bill Janssen

pbmtobbng: (A) 1989 Mike Parker

pbmtocmuwm: (A) 1989 Jef Poskanzer

pbmtoeps: (A) 1988 Jef Poskanzer

pbmtoepson: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>

pbmtog3: (A) 1989 Paul Haebeler <paul@manray.sgi.com>

pbmtogem: (A) 1989 Jef Poskanzer, David Beckemeyer

pbmtogo: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'

pbmtocicon: (A) 1988 Jef Poskanzer

pbmtolol: (A) 1988 Jef Poskanzer, Michael Haberler

pbmtomacp: (A) 1988 Douwe vand der Schaaf

pbmtomda: (C) 1999 John Elliott <jce@seasip.demon.co.uk>

pbmtomgr: (A) 1989 Jef Poskanzer

pbmtomonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhsen <tim.ruehsen@openmediasystem.de>

pbmtopgm: (A) 1989-1990 Jef Poskanzer, Angus Duggan

pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer

pbmtoplot: (A) 1990 Arthur David Olson

pbmtoppa: (C) 1998 Tim Norman

pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-karlsruhe.de>

pbmtopx: (A) 1988 Jef Poskanzer

pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>

pbmtox10bm: (A) 1988 Jef Poskanzer

pbmtobybm: (A) 1988 Jef Poskanzer

pbmtovm: (A) 1991 Jamie Zawinski and Jef Poskanzer

pbmtozinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer

pbmupc: (A) 1988 Jef Poskanzer

pcxtoppm: (A) 1990 Michael Davidson

pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>

pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>

pgmedge: (A) 1989 Jef Poskanzer

pgmkernel: (A) 1989 Jef Poskanzer

pgmnoise: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory

pgmramp: (A) 1989 Frank Neumann

pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>

pgmtexrere: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley

pgmtols: (A) 1991 Jef Poskanzer

pgmtolisp: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtopbm:      (A) 1989      Jef Poskanzer
pgmtooppm:     (A) 1991      Jef Poskanzer
pi1toppm:      (A) 1989      Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm:      (A) 1988      David Beckemeyer and Diomidis D. Spinellis
pijtoppm:      (A) 1990      Christos Zoulas <christos@ee.cornell.edu>
pngtopnm:      (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaijk <willem@schaijk.com>
pi1toppm:      (A) 1991      Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm:      (A) 1988      David Beckemeyer and Diomidis D. Spinellis
pijtoppm:      (A) 1990      Christos Zoulas <christos@ee.cornell.edu>
pngtopnm:      (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaijk <willem@schaijk.com>
pgmtopbm:      (A) 1989      Jef Poskanzer
pgmtooppm:     (A) 1991      Jef Poskanzer
pi1toppm:      (A) 1989      Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm:      (A) 1988      David Beckemeyer and Diomidis D. Spinellis
pijtoppm:      (A) 1990      Christos Zoulas <christos@ee.cornell.edu>
pngtopnm:      (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaijk <willem@schaijk.com>
pnmtofiasco:  (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtofits:   (C) 1989  Wilson H. Bent <whb@hoh-2.att.com>
pnmtojpeg:  (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtopaln:   (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtoplainpnm: (A) 1991  Jef Poskanzer
pnmtopng:   (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik
              <willem@schai.com>
pnmtops:    (A) 1989  Jef Poskanzer
pnmtorast:  (A) 1989-1991 Jef Poskanzer
pnmtorle:   (E) 1994  Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi:   (A) 1994  Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir:  (A) 1991  Marvin Landis
pnmtotiff:  (A) 1990  Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999  Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd:  (A) 1989-1991 Jef Poskanzer
ppm3d:      (A) 1989  Jef Poskanzer
ppmbrighten:  (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange:  (A) 1991  Wilson H. Bent, Jr
ppmci:      (H) 1995  John Walker <kelvin@fourmilab.ch>
ppmcolormask: (H1) 2000  Bryan Henderson <bryanh@giraffe-data.com>
ppmcolors (H1) 2001  Bryan Henderson
ppmdim:      (A) 1993  Frank Neumann
ppmindist:   (A) 1993  Dan Stromberg
ppmdither:   (A) 1991  Christos Zoulas
ppmfade:     (?) 1994  Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmls:      (A) 1993  Frank Neumann
ppmnforge:  (H) 1989  John Walker <kelvin@autodesk.com>
ppmlist:    (A) 1989  Jef Poskanzer
ppmlabel:   (H) 1995  John Walker <kelvin@fourmilab.ch>
ppmmake:    (A) 1989  Jef Poskanzer
ppmmix:     (A) 1993  Frank Neumann
ppmntsc:    (E) 1993  Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pmmquant:  (A) 1989-1991 Jef Poskanzer
pmmquantall: (A) 1991  Jef Poskanzer
ppmqvga:    (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
pmmrainbow: (H2) 2001  Arjen Bax <arjen.bax@cmg.nl>
pmmrelief:  (A) 1990  Wilson H. Bent, Jr
ppmshade:   (G) 1997  John Walker <kelvin@fourmilab.ch>
pmpshift:   (A) 1993  Frank Neumann
ppmspread:  (A) 1993  Frank Neumann
ppmtoacad:  (H) 1991  John Walker <kelvin@autodesk.com>
pmmtobmp:  (A) 1992  David W. Sanderson
ppmtoeyuv:  (B) 1995  The Regents of the University of California
ppmtoicr:   (A) 1990  Kanthan Pillay <svpillay@Princeton.EDU>
pmmtoibmp: (A) 1989  Jef Poskanzer
ppmtoleaf:  (A) 1994  Bill O'Donnell
ppmtojol:   (A) 2000  Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap:    (A) 1989      Jef Poskanzer
ppmtomitsu:  (A) 1992-1993 S.Petra Zeidler
ppmtomeg:    (B) 1995      The Regents of the University of California
ppmtoneo:    (D) 2001      Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopc:     (B) 1994      Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopm:     (A) 1989      Jef Poskanzer
ppmtopi1:    (A) 1991      Jef Poskanzer and Steve Belczyk
ppmtopict:   (A) 1990      Ken Yap <ken@cs.rochester.edu>
ppmtopj:     (A) 1990      Christos Zoulas <christos@ee.cornell.edu>
ppmtopuzz:   (A) 1991      Jef Poskanzer
ppmtorgb3:   (A) 1991      Jef Poskanzer
ppmtosixel:  (A) 1991      Rick Vinci
ppmtotga:    (A) 1989-1991 Mark Shand and Jef Poskanzer
ppmtouil:    (A) 1990      Mark W. Snitily, Jef Poskanzer
psidtopgm:   (A) 1989      Jef Poskanzer
pstopnm:     (I) 1992      Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm:    (A) 1989      Jef Poskanzer
rastopnm:    (A) 1989-1991 Jef Poskanzer
rawtopgm:    (A) 1989      Jef Poskanzer
rawtopppm:   (A) 1991      Jef Poskanzer
rgbstopppm:  (A) 1991      Jef Poskanzer
rloptppm:    (E) 1994      Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm:   (A) 1998      John Walker
sgitoppm:    (A) 1994      Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtoppm:    (A) 1991      Marvin Landis
sldtoppm:    (H) 1991      John Walker <kelvin@autodesk.com>
spectoppm:   (A) 1991      Jef Poskanzer and Steve Belczyk
spputopppm:  (A) 1991      Jef Poskanzer and Steve Belczyk
tiffstoppm:  (A) 1990      Sun Microsystems, Inc, Jef Poskanzer
tgatopppm:   (A) 1989      Jef Poskanzer
thinkjettopbm: (A) 2001      W. Eric Norum <eric.norum@usask.ca>
wbmptopbm:   (A) 1999      Terje Sannum <terje@looplab.com>
winicontoppm: (A) 2000      Lee Benfield <lee@recoil.org>
xbmtopbm:    (A) 1988      Jef Poskanzer
ximtopppm:   (A) 1991      Jef Poskanzer
xpmtopppm:   (A) 1991      Jef Poskanzer
xvminitoppm: (A) 1993      Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm:    (A) 1989-1991 Jef Poskanzer
ybmtopbm:    (A) 1988      Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993      Marcel Wijkstra <wijkstra@fwi.uva.nl>
zeissstopppm: (A) 1993      Oliver Trepte <oliver@fysik4.kth.se>
The following packages were included in this package, but replaced:

[ bmptoppm: (A) 1992 David W. Sanderson ]
[ gemtopbm: (A) 1988 Diomidis D. Spinellis ]
[ pnmnorm: (A) 1989-1991 Jef Poskanzer ]
[ pnminterp: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ pnminterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ pnmnoraw: (A) 1991 Jef Poskanzer ]
[ picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu> ]
[ ppmsvgalib: (H1) 2002 Bryan Henderson [never included in debian]]

Not distributed due to patent issues:

[ jbigtopnm: (C) 2000 Markus Kuhn <mkuhn@acm.org> ]
[ pnmtojbig: (C) 2000 Markus Kuhn <mkuhn@acm.org> ]
filter to create GIFs - patent restricted. (http://www.unisys.com/unisys/lzw/)
[ ppmtogif: (A) 1989 Jef Poskanzer ]

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PATENTS
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The original purpose of patents is probably perverted when patents are applied to things you implement in computer programs. This is one of the Free Software Foundation's causes. See <http://www.gnu.org/philosophy.html#laws>.

Unisys owns a patent on LZW compression, which is used by ppmtogif, and maybe on LZW decompression, which is used by giftoppm. IBM also owns a patent that may cover the GIF tools. Unisys offers a license of the patent for trivial use for $5000. Its patent expires in 2003. Neither company has ever enforced the patent against trivial users of it. <http://news.cnet.com/news/0-1005-200-1713278.html> is an article dated April 18, 2000 on the issue.
<http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter. For information from another perspective, see http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.

The following Netpbm components may be restricted by this patent: ppmtogif, giftopnm.

A good substitute for GIF if the patents are a problem is PNG (see pngtopnm, pnmtopng), which was developed with a primary purpose of not using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and other patents covering various aspects of the "front end."

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1.240 python-idna 2.6 1

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1.242 jetty-xml 9.4.35.v20201120

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.243 requestsexceptions 1.4.0

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1.244 jersey-media-jaxb 2.25.1
1.244.1 Available under license:
CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.245 metrics-jvm 4.1.16
1.245.1 Available under license:
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 11
Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics.javax.management";version="4.1.16"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1,5)".com.sun.management.resolution:=optional,javax.management.org.slf4j;version="[1.6.0,2.0)"
Private-Package: com.codahale.metrics.jvm
Require-Capability: osgi.ee;filter:="(&osgi.ee=JavaSE)(version=1.8)"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1171050174_1622796413.08/0/metrics-jvm-4-1-16-jar/META-INF/MANIFEST.MF

1.246 apparmor 2.13-8.ph3
1.246.1 Available under license:

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1.248 libsemanage 2.7-2build2

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1.249 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe

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1.252 color-string 1.7.4

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1.256 finalhandler 1.1.2

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1.264 miekg-dns 1.0.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.272 grafana-grafana-plugin-sdk-go 0.63.0

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1.273 liberror-perl 0.17025-1

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The End
1.274 make-dfsg 4.1-9.1ubuntu1

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1.275 python3-psycopg2 2.7.4-1

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1.276 go-uber-org-multierr 1.1.0

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1.277 opencensus 0.22.5

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1.279 python3-certifi 2018.1.18-2
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.280 c-ares 1.2.5

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package cloud

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

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

1.282 githubcom/go-openapiswag v0.19.7
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<signature of Ty Coon>, 1 April 1990
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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.

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.

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* /opt/cola/permits/1243141166_1641854572.79/0/graph-0-9-tar-gz/graph-0.9/traverse/traverse.go

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* /opt/cola/permits/1243141166_1641854572.79/0/graph-0-9-tar-gz/graph-0.9/search/disjoint.go
* /opt/cola/permits/1243141166_1641854572.79/0/graph-0-9-tar-gz/graph-0.9/concrete/tilegraph.go
* /opt/cola/permits/1243141166_1641854572.79/0/graph-0-9-tar-gz/graph-0.9/concrete/mutablegr_test.go
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* /opt/cola/permits/1243141166_1641854572.79/0/graph-0-9-tar-gz/graph-0.9/concrete/mutablegr.go
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1.288 urllib3 1.21.1

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQBl6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage
* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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

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

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

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

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

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

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

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

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

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

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

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

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

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

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

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

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

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

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

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

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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

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

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

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

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

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

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

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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### 1.291 libasounddata 1.1.3-5ubuntu0.6

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: alsa-utils
Upstream-Contact: Jarsolav Kysela <perex@suse.cz>
Comment: This package was debianized by Wichert Akkerman 7 Jun 1998.
  Masato Taruishi took over on 17 Oct 1999.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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

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

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

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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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/.

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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

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

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

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

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

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

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

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

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

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

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

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

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>>  unicode-5.0

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1.303 tomcat-dbcp 9.0.55

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1.304 console 1.12.0

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1.305 google-api-go-client 0.36.0

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package api

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

)

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

`) const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

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

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

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

    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
      t.Errorf("%v: license header not at the top", path)
      return nil
    }
    if err != nil {
      t.Fatal(err)
    }
  })
1.306 chunkio 1.0.3
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**1.312 pcre 8.39-9**

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1.314 ethtool 4.15-0ubuntu1

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import "testing"
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{ "name": "the name", "url": "the url" }`
    const licenseYAML = `name: the name
url: the url`

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

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

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

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

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }
}
want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

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

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }
    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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

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

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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`  
    Name *string `json:"name",omitempty` 
    URL  *string `json:"url",omitempty` 
    HTMLURL        *string   `json:"html_url",omitempty` 
    Featured       *bool     `json:"featured",omitempty` 
    Description    *string   `json:"description",omitempty` 
    Category       *string   `json:"category",omitempty` 
    Implementation *string   `json:"implementation",omitempty` 
    Required       *[]string `json:"required",omitempty` 
    Permitted      *[]string `json:"permitted",omitempty` 
    Forbidden      *[]string `json:"forbidden",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() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // Further code to handle the response...
}
licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
1.338 hk2-locator 2.5.0

1.339 hashicorp-serf 0.8.2

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1.340 certifi 2021.05.30

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

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@(#) SRCFile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.341 linkedin-goavro 2.9.7

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1.342 normalize-path 3.0.0

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1.343 pyudev 0.21.0-1

1.343.1 Available under license:

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.346 gogo-protobuf v1.3.1

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.347 python-certifi 2018.1.18-2

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

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

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.348 libnpmpack 3.0.0

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1.349 aws-sign2 0.7.0

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1.350 gls 4.20.0+incompatible

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/**
 * This is bison grammar and productions for parsing all versions of the
 * GLSL shading languages.
 */
/* Based on:
ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a matching Lex specification) for the April 30, 1985 draft version of the ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that original, as mentioned in the answer to question 17.25 of the comp.lang.c FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as possible; please let me know if you discover discrepancies.

Jutta Degener, 1995 */

#include "SymbolTable.h"
#include "ParseHelper.h"
#include ".\Public\ShaderLang.h"
#include "attribute.h"

using namespace glslang;

%}

%define parse.error verbose

%union {
    struct {
        glslang::TSourceLoc loc;
        union {
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } lex;
    struct {
        glslang::TSourceLoc loc;
        glslang::TOperator op;
        union {
            TIntermNode* intermNode;
            glslang::TIntermNodePair nodePair;
        };
    } term;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TName name;
            struct {
                glslang::TString *string;
                int i;
                unsigned int u;
                long long i64;
                unsigned long long u64;
                bool b;
                double d;
            };
            glslang::TSymbol* symbol;
        } lex;
    } func;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } def;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } type;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } decl;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } Attr;
    union {
        struct {
            glslang::TSourceLoc loc;
            glslang::TString *string;
            int i;
            unsigned int u;
            long long i64;
            unsigned long long u64;
            bool b;
            double d;
        };
        glslang::TSymbol* symbol;
    } liglslang::TString;
glslang::TIntermTyped* intermTypedNode;
glslang::TAttributes* attributes;
};
union {
  glslang::TPublicType type;
  glslang::TFunction* function;
  glslang::TParameter param;
  glslang::TTypeLoc typeLine;
  glslang::TTypeList* typeList;
  glslang::TArraySizes* arraySizes;
  glslang::TIdentifierList* identifierList;
};
} interm;
}
%
/* windows only pragma */
#ifndef _MSC_VER
  #pragma warning(disable : 4065)
  #pragma warning(disable : 4127)
  #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)
extern int yylex(YYSTYPE*, TParseContext&);
%
%parse-param {glslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser // enable thread safety
%expect 1     // One shift reduce conflict because of if | else
%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T UINT8_T
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4
%%token <lex> U32VEC2 U32VEC3 U32VEC4
%%token <lex> I16VEC2 I16VEC3 I16VEC4
%%token <lex> U16VEC2 U16VEC3 U16VEC4
%%token <lex> I8VEC2 I8VEC3 I8VEC4
%%token <lex> U8VEC2 U8VEC3 U8VEC4
%%token <lex> VEC2 VEC3 VEC4
%%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%%token <lex> F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%%token <lex> MAT2X2 MAT2X3 MAT2X4
%%token <lex> MAT3X2 MAT3X3 MAT3X4
%%token <lex> MAT4X2 MAT4X3 MAT4X4
%%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%%token <lex> ATOMIC_UINT

// combined image/sampler
%%token <lex> SAMPLER1D2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW SAMPLER2DSHADOW
%%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
%%token <lex> SAMPLER1DARRAYSHADOW
%%token <lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D USAMPLERCUBE
%%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%%token <lex> SAMPLER2DIRECT SAMPLER2DIRECTSHADOW ISAMPLER2DIRECT USAMPLER2DIRECT
%%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
%%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
%%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%%token <lex> SAMPLEREXTERNALOES
%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW F16SAMPLERCUBEARRAYSHADOW

// pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UT ExtU RExD U TEXTURE3D
%token <lex> UTEX TURECUBE UTEX TURE1DARRAY UTEX TURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTExTURe2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEX TUREBUFFER
%token <lex> ITEX TURECUBEARRAY ITEX TURECUBEARRAY UTEX TURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTExTURe2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEX TURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS USUBPASSINPUT USUBPASSINPUTMS
%token <lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IIMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IIMAGEBUFFER IMAGEBUFFER IMAGEBUFFER
%token <lex> IMAGE1DARRAY IMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IMAGE2DMSARRAY UIMAGE2DMSARRAY

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY
%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> typeSpecifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function> function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list
%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
  : IDENTIFIER {
    $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
  }

primary_expression
  : variable_identifier {
    $$ = $1;
  }
  | INT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
  }
  | UINT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
  }
  | INTCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
  }
  | UINTCONSTANT {

parseContext.fullIntegerCheck($1.loc, "unsigned literal");
$$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}

<table>
<thead>
<tr>
<th>INT64CONSTANT</th>
</tr>
</thead>
</table>
| parseContext.int64Check($1.loc, "64-bit integer literal");
| $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true); |

<table>
<thead>
<tr>
<th>UINT64CONSTANT</th>
</tr>
</thead>
</table>
| parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
| $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true); |

<table>
<thead>
<tr>
<th>INT16CONSTANT</th>
</tr>
</thead>
</table>
| parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
| $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true); |

<table>
<thead>
<tr>
<th>UINT16CONSTANT</th>
</tr>
</thead>
</table>
| parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
| $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true); |

<table>
<thead>
<tr>
<th>FLOATCONSTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOUBLECONSTANT</th>
</tr>
</thead>
</table>
| parseContext.doubleCheck($1.loc, "double literal");
| $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true); |

<table>
<thead>
<tr>
<th>FLOAT16CONSTANT</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float literal");
| $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true); |

<table>
<thead>
<tr>
<th>BOOLCONSTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEFT_PAREN expression RIGHT_PAREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$ = $2;</td>
</tr>
<tr>
<td>if ($$-&gt;getAsConstantUnion())</td>
</tr>
<tr>
<td>$$-&gt;getAsConstantUnion()-&gt;setExpression();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

postfix_expression
 : primary_expression { |
| $$ = $1;                      |
|}                               |

<table>
<thead>
<tr>
<th>postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$ = parseContext.handleBracketDereference($2.loc, $1, $3);</td>
</tr>
</tbody>
</table>

| function_call |


$$ = $1;
}
| postfix_expression DOT IDENTIFIER {
    $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
}
| postfix_expression INC_OP {
    parseContext.variableCheck($1);
    parseContext.lValueErrorCheck($2.loc, "++", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
}
| postfix_expression DEC_OP {
    parseContext.variableCheck($1);
    parseContext.lValueErrorCheck($2.loc, "--", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
}
|

integer_expression
  : expression {
    parseContext.integerCheck($1, "[ ]");
    $$ = $1;
  }
|

function_call
  : function_call_or_method {
    $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
    delete $1.function;
  }
|

function_call_or_method
  : function_call_generic {
    $$ = $1;
  }
|

function_call_generic
  : function_call_header_with_parameters RIGHT_PAREN {
    $$ = $1;
    $$.$loc = $2.loc;
  }
| function_call_header_no_parameters RIGHT_PAREN {
    $$ = $1;
    $$.$loc = $2.loc;
  }
|
// Grammar Note: Constructors look like functions, but are recognized as types.

function_identifier
  : type_specifier {
    // Constructor
    $$= 0;
    $$.$function = parseContext.handleConstructorCall($1.loc, $1);
  }
  | postfix_expression {
    // Should be a method or subroutine call, but we haven't recognized the arguments yet.
    $$= 0;
    $$.$internode = 0;
    TIntermMethod* method = $1->getAsMethodNode();
  }
if (method) {
    $$.function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
    $$.intermNode = method->getObject();
} else {
    TIntermSymbol* symbol = $1->getAsSymbolNode();
    if (symbol) {
        parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
        TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
        $$function = function;
    } else
        parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
}

if ($$.function == 0) {
    // error recover
    TString empty("");
    $$.function = new TFunction(&empty, TType(EbtVoid), EOpNull);
}

unary_expression
  : postfix_expression {
    parseContext.variableCheck($1);
    $$ = $1;
    if (TIntermMethod* method = $1->getAsMethodNode())
        parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
  }
  | INC_OP unary_expression {
    parseContext.lValueErrorCheck($1.loc, "++", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
  }
  | DEC_OP unary_expression {
    parseContext.lValueErrorCheck($1.loc, "--", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
  }
  | unary_operator unary_expression {
    if ($1.op != EOpNull) {
        char errorOp[2] = {0, 0};
        switch($1.op) {
            case EOpNegative:   errorOp[0] = '-'; break;
            case EOpLogicalNot: errorOp[0] = '!'; break;
            case EOpBitwiseNot: errorOp[0] = '~'; break;
            default: break; // some compilers want this
        }
        $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
    } else
        $$ = $2;
if ($$->getAsConstantUnion())
$$->getAsConstantUnion()->setExpression();
}
}
;

// Grammar Note: No traditional type casts.

unary_operator
: PLUS  { $$.loc = $1.loc; $$.op = EOpNull; }
| DASH  { $$.loc = $1.loc; $$.op = EOpNegative; }
| BANG  { $$.loc = $1.loc; $$.op = EOpLogicalNot; }
| TILDE { $$.loc = $1.loc; $$.op = EOpBitwiseNot;
        parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
 ;

// Grammar Note: No '*' or '&' unary ops. Pointers are not supported.

multiplicative_expression
: unary_expression { $$ = $1; }
| multiplicative_expression STAR unary_expression {
$$ = parseContext.handleBinaryMath($2.loc, "+", EOpMul, $1, $3);
if ($$ == 0)
$$ = $1;
}
| multiplicative_expression SLASH unary_expression {
$$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
if ($$ == 0)
$$ = $1;
}
| multiplicative_expression PERCENT unary_expression {
parseContext.fullIntegerCheck($2.loc, "%");
$$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
if ($$ == 0)
$$ = $1;
}
;

additive_expression
: multiplicative_expression { $$ = $1; }
| additive_expression PLUS multiplicative_expression {
$$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
if ($$ == 0)
$$ = $1;
}
| additive_expression DASH multiplicative_expression {
$$ = parseContext.handleBinaryMath($2.loc, "-", EOpSub, $1, $3);
if ($$ == 0)
$$ = $1;
}
shift_expression
  : additive_expression { $$ = $1; }
  | shift_expression LEFT_OP additive_expression {
    parseContext.fullIntegerCheck($2.loc, "bit shift left");
    $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
    if ($$ == 0)
      $$ = $1;
  }
  | shift_expression RIGHT_OP additive_expression {
    parseContext.fullIntegerCheck($2.loc, "bit shift right");
    $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
    if ($$ == 0)
      $$ = $1;
  }

relational_expression
  : shift_expression { $$ = $1; }
  | relational_expression LEFT_ANGLE shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
    if ($$ == 0)
      $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  | relational_expression RIGHT_ANGLE shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
    if ($$ == 0)
      $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  | relational_expression LE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "\le", EOpLessThanEqual, $1, $3);
    if ($$ == 0)
      $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  | relational_expression GE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "\ge", EOpGreaterThanEqual, $1, $3);
    if ($$ == 0)
      $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }

equality_expression
  : relational_expression { $$ = $1; }
  | equality_expression EQ_OP relational_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
    parseContext.opaqueCheck($2.loc, $1->getType(), "==");
    parseContext.specializationCheck($2.loc, $1->getType(), "==");
$$ = \text{parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3)};
if ($$ == 0)
   $$ = \text{parseContext.intermediate.addConstantUnion(false, $2.loc)};
}
| equality_expression NE_OP relational_expression {
   parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
   parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
   parseContext.specializationCheck($2.loc, $1->getType(), "!=");
   $$ = \text{parseContext.handleBinaryMath($2.loc, "!="}, EOpNotEqual, $1, $3); 
   if ($$ == 0)
      $$ = \text{parseContext.intermediate.addConstantUnion(false, $2.loc)};
}

and_expression
: equality_expression { $$ = $1; } 
| and_expression AMPERSAND equality_expression {
   parseContext.fullIntegerCheck($2.loc, "bitwise and");
   $$ = \text{parseContext.handleBinaryMath($2.loc, ", EOpAnd, $1, $3); 
   if ($$ == 0)
      $$ = $1;
}

exclusive_or_expression
: and_expression { $$ = $1; } 
| exclusive_or_expression CARET and_expression {
   parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
   $$ = \text{parseContext.handleBinaryMath($2.loc, ", EOpExclusiveOr, $1, $3); 
   if ($$ == 0)
      $$ = $1;
}

inclusive_or_expression
: exclusive_or_expression { $$ = $1; } 
| inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
   parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
   $$ = \text{parseContext.handleBinaryMath($2.loc, ", EOpInclusiveOr, $1, $3); 
   if ($$ == 0)
      $$ = $1;
}

logical_and_expression
: inclusive_or_expression { $$ = $1; } 
| logical_and_expression AND_OP inclusive_or_expression {
   $$ = \text{parseContext.handleBinaryMath($2.loc, ", EOpLogicalAnd, $1, $3);
if ($$ == 0)
    $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

 logical_xor_expression
  : logical_and_expression { $$ = $1; }
  | logical_xor_expression XOR_OP logical_and_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "^^", EOpLogicalXor, $1, $3);
      if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
  ;

 logical_or_expression
  : logical_xor_expression { $$ = $1; }
  | logical_or_expression OR_OP logical_xor_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
      if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
  ;

 conditional_expression
  : logical_or_expression { $$ = $1; }
  | logical_or_expression QUESTION {
      ++parseContext.controlFlowNestingLevel;
      --parseContext.controlFlowNestingLevel;
      parseContext.boolCheck($2.loc, $1);
      parseContext.rValueErrorCheck($2.loc, ":", $1);
      parseContext.rValueErrorCheck($5.loc, ":", $4);
      parseContext.rValueErrorCheck($5.loc, ":", $6);
      $$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
      if ($$ == 0) {
        parseContext.binaryOpError($2.loc, ":\", $4->getCompleteString(), $6->getCompleteString());
        $$ = $6;
      }
  }
  ;

 assignment_expression
  : conditional_expression { $$ = $1; }
  | unary_expression assignment_operator assignment_expression {
      parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
      parseContext.opaqueCheck($2.loc, $1->getType(), ";");
      parseContext.specializationCheck($2.loc, $1->getType(), ";");
parseContext.lValueErrorCheck($2.loc, "assign", $1);
parseContext.rValueErrorCheck($2.loc, "assign", $3);
$$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
if ($$ == 0) {
    parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
    $$ = $1;
}
}

assignment_operator
  : EQUAL {
    $$.loc = $1.loc;
    $$.$op = EOpAssign;
  }
| MUL.Assign {
    $$.$loc = $1.$loc;
    $$.$op = EOpMulAssign;
  }
| DIV.Assign {
    $$.$loc = $1.$loc;
    $$.$op = EOpDivAssign;
  }
| MOD.Assign {
    parseContext.fullIntegerCheck($1.$loc, "/=/");
    $$.$loc = $1.$loc;
    $$.$op = EOpModAssign;
  }
| ADD.Assign {
    $$.$loc = $1.$loc;
    $$.$op = EOpAddAssign;
  }
| SUB.Assign {
    $$.$loc = $1.$loc;
    $$.$op = EOpSubAssign;
  }
| LEFT.Assign {
    parseContext.fullIntegerCheck($1.$loc, "bit-shift left assign");
    $$.$loc = $1.$loc; $$.$op = EOpLeftShiftAssign;
  }
| RIGHT.Assign {
    parseContext.fullIntegerCheck($1.$loc, "bit-shift right assign");
    $$.$loc = $1.$loc; $$.$op = EOpRightShiftAssign;
  }
| AND.Assign {
    parseContext.fullIntegerCheck($1.$loc, "bitwise-and assign");
    $$.$loc = $1.$loc; $$.$op = EOpAndAssign;
}
XOR_ASSIGN {
  parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
  $$ = $1.loc; $$.$op = EOpExclusiveOrAssign;
}

OR_ASSIGN {
  parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
  $$ = $1.loc; $$.$op = EOpInclusiveOrAssign;
}

expression
  : assignment_expression {
    $$ = $1;
  }
expression COMMA assignment_expression {
  parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
  $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
  if ($$ == 0) {
    parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
    $$ = $3;
  }
}

constant_expression
  : conditional_expression {
    parseContext.constantValueCheck($1, ":");
    $$ = $1;
  }

declaration
  : function_prototype SEMICOLON {
    parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
    $$ = 0;
    // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
  }
init_declarator_list SEMICOLON {
  if ($1.intermNode && $1.intermNode->getAsAggregate())
    $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
  $$ = $1.intermNode;
}

PRECISION precision_qualifier type_specifier SEMICOLON {
  parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

  // lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
  parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
  parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
$$ = 0;
}
| block_structure SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList);
    $$ = 0;
}
| block_structure IDENTIFIER SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
    $$ = 0;
}
| block_structure IDENTIFIER array_specifier SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
    $$ = 0;
}
| type_qualifier SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
    $$ = 0;
}
| type_qualifier IDENTIFIER SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
    $$ = 0;
}
| type_qualifier IDENTIFIER IDENTIFIER array_specifier SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    $3->push_back($2.string);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
    $$ = 0;
}
| type_qualifier IDENTIFIER IDENTIFIER identifier_list SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    $3->push_back($2.string);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
    $$ = 0;
}
| type_qualifier IDENTIFIER IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list RIGHT_BRACE {
    --parseContext.structNestingLevel;
    parseContext.blockName = $2.string;
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.currentBlockQualifier = $1.qualifier;
    $$.loc = $1.loc;
    $$.typeList = $5;
}
| identifier_list {
|   COMMA IDENTIFIER {
        $$ = new TIdentifierList;
        $$->push_back($2.string);
}
identifier_list COMMA IDENTIFIER {
  $$ = $1;
  $$->push_back($3.string);
}
;

function_prototype
  : function_declarator RIGHT_PAREN {
    $$function = $1;
    $$loc = $2.loc;
  }
  ;

function_declarator
  : function_header {
    $$ = $1;
  }
  | function_header_with_parameters {
    $$ = $1;
  }
  ;

function_header_with_parameters
  : function_header parameter_declaration {
    // Add the parameter
    $$ = $1;
    if ($2.param.type->getBasicType() != EbtVoid)
      $1->addParameter($2.param);
    else
      delete $2.param.type;
  }
  | function_header_with_parameters COMMA parameter_declaration {
    // Only first parameter of one-parameter functions can be void
    // The check for named parameters not being void is done in parameter_declarator
    //
    if ($3.param.type->getBasicType() == EbtVoid) {
      // This parameter > first is void
      //
      parseContext.error($2.loc, "cannot be an argument type except for '(void)'", ", "void", ", ");
      delete $3.param.type;
    } else {
      // Add the parameter
      $$ = $1;
      $1->addParameter($3.param);
function_header
    : fully_specified_type IDENTIFIER LEFT_PAREN 
      if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) 
        parseContext.error($2.loc, "no qualifiers allowed for function return", GetStorageQualifierString($1.qualifier.storage), ");
      } if ($1.arraySizes) 
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

// Add the function as a prototype after parsing it (we do not support recursion)
TFunction *function;
TType type($1);

// Potentially rename shader entry point function. No-op most of the time.
parseContext.renameShaderFunction($2.string);

// Make the function
function = new TFunction($2.string, type);
$$ = function;
;

parameter_declarator
    // Type + name
    : type_specifier IDENTIFIER array_specifier 
      if ($1.arraySizes) 
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
      } if ($1.basicType == EbtVoid) 
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    } parseContext.reservedErrorCheck($2.loc, *$2.string);

TParameter param = { $2.string, new TType($1) }; 
$$.$loc = $2.loc;
$$.$param = param;

| type_specifier IDENTIFIER array_specifier 
  if ($1.arraySizes) 
    parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
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parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
parseContext.reservedErrorCheck($2.loc, *$2.string);

TParameter param = { $2.string, new TType($1)};
parseContext.arrayDimMerge(*param.type, $3.arraySizes);

$$.loc = $2.loc;
$$param = param;
}
;

parameter_declaration

//
// With name
//
:	ypeQualifier parameter_declarator {
$$ = $2;
if ($1.qualifier.precision != EpqNone)
$$param.type->getQualifier().precision = $1.qualifier.precision;
parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);
}

| parameter_declarator {
$$ = $1;

parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}

//
// Without name
//
:) typeQualifier parameter_type_specifier {
$$ = $2;
if ($1.qualifier.precision != EpqNone)
$$param.type->getQualifier().precision = $1.qualifier.precision;
parseContext.precisionQualifierCheck($1.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);
parameter_type_specifier {
  $$ = $1;

  parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
  parseContext.paramCheckFix($1.loc, EvqTemporary, *$$, param.type);
  parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
}

init_declarator_list {
  single_declaration {
    $$ = $1;
  }

  init_declarator_list COMMA IDENTIFIER {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type);
  }

  init_declarator_list COMMA IDENTIFIER array_specifier {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
  }

  init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
    $$, type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
    $$, intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
  }

  init_declarator_list COMMA IDENTIFIER EQUAL initializer {
    $$, type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
    $$, intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $4.loc);
  }
}

single_declarator
  : fully_specified_type {
    $$, type = $1;
    $$, intermNode = 0;
    parseContext.declareTypeDefaults($$.loc, $$, type);
fully_specified_type IDENTIFIER {
    $$type = $1;
    $$internNode = 0;
    parseContext.declareVariable($2.loc, *$2.string, $1);
}

fully_specified_type IDENTIFIER array_specifier {
    $$type = $1;
    $$internNode = 0;
    parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
}

fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
    $$type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
    $$internNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
}

fully_specified_type IDENTIFIER EQUAL initializer {
    $$type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    $$internNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
}

// Grammar Note: No 'enum', or 'typedef'.

fully_specified_type
: type_specifier {
    $$ = $1;

    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    }

    parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
}

type_qualifier type_specifier {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

    if ($2.arraySizes) {
        parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
    }

    if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
        $2.arraySizes = 0;
parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
$2.shaderQualifiers.merge($1.shaderQualifiers);
parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

$$ = $2;

if (! $$.qualifier.isInterpolation() &&
   ((parseContext.language == EShLangVertex  && $$.qualifier.storage == EvqVaryingOut) ||
    (parseContext.language == EShLangFragment && $$.qualifier.storage == EvqVaryingIn)))
$$ .qualifier.smooth = true;

invariant_qualifier
   : INVARIANT {
      parseContext.globalCheck($1.loc, "invariant");
      parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
      $$ .init($1.loc);
      $$ .qualifier.invariant = true;
   }

interpolation_qualifier
   : SMOOTH {
      parseContext.globalCheck($1.loc, "smooth");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth");
      parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
      $$ .init($1.loc);
      $$ .qualifier.smooth = true;
   }|
   FLAT {
      parseContext.globalCheck($1.loc, "flat");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "flat");
      parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "flat");
      $$ .init($1.loc);
      $$ .qualifier.flat = true;
   }|
   NOPERSPECTIVE {
      parseContext.globalCheck($1.loc, "noperspective");
      parseContext.requireProfile($1.loc, ~EEsProfile, "noperspective");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
      $$ .init($1.loc);
      $$ .qualifier.nopersp = true;
   }|
   __EXPLICITINTERPAMD {
      ifndef AMD_EXTENSIONS
      parseContext.globalCheck($1.loc, "__explicitInterpAMD");
   }
parseContext.profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
parseContext.profileRequires($1.loc, ECompatibilityProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
$$$.init($1.loc);
$$$.qualifier.explicitInterp = true;
#endif
}

layout_qualifier
 : LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
  $$ = $3;
}

layout_qualifier_id_list
 : layout_qualifier_id {
  $$ = $1;
}
 | layout_qualifier_id_list COMMA layout_qualifier_id {
  $$ = $1;
  $$$.shaderQualifiers.merge($3.shaderQualifiers);
  parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
}

layout_qualifier_id
 : IDENTIFIER {
  $$$.init($1.loc);
  parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
}
 | IDENTIFIER EQUAL constant_expression {
  $$$.init($1.loc);
  parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
}
 | SHARED { // because "shared" is both an identifier and a keyword
  $$$.init($1.loc);
  TString strShared("shared");
  parseContext.setLayoutQualifier($1.loc, $$, strShared);
}

precise_qualifier
 : PRECISE {
  parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5, "precise");
  parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
  $$$.init($1.loc);
$.qualifier.noContraction = true;

; type_qualifier
: single_type_qualifier {
    $$ = $1;
}

| type_qualifier single_type_qualifier {
    $$ = $1;
    if ($$.basicType == EbtVoid)
    $$$basicType = $2.basicType;

    $$$shaderQualifiers.merge($2.shaderQualifiers);
    parseContext.mergeQualifiers($$.loc, $$.qualifier, $2.qualifier, false);
}

single_type_qualifier
: storage_qualifier {
    $$ = $1;
}

| layout_qualifier {
    $$ = $1;
}

| precision_qualifier {
    parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
    $$ = $1;
}

| interpolation_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}

| invariant_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}

| precise_qualifier {
    // allow inheritance of storage qualifier from block declaration
    $$ = $1;
}

storage_qualifier
: CONST {
    $$init($1.loc);
    $$$.qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
}
<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.requireStage($1.loc, EShLangVertex, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>parseContext.checkDeprecated($1.loc, ECoreProfile, 130, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>parseContext.checkDeprecated($1.loc, ENoProfile, 130, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>parseContext.requireNotRemoved($1.loc, EEsProfile, 300, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;attribute&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqVaryingIn;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>VARYING</td>
</tr>
<tr>
<td>parseContext.checkDeprecated($1.loc, ENoProfile, 130, &quot;varying&quot;);</td>
</tr>
<tr>
<td>parseContext.checkDeprecated($1.loc, ECoreProfile, 130, &quot;varying&quot;);</td>
</tr>
<tr>
<td>parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, &quot;varying&quot;);</td>
</tr>
<tr>
<td>parseContext.requireNotRemoved($1.loc, EEsProfile, 300, &quot;varying&quot;);</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;varying&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
<tr>
<td>if (parseContext.language == EShLangVertex)</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqVaryingOut;</td>
</tr>
<tr>
<td>else</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqVaryingIn;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>INOUT</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;inout&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqInOut;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>IN</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;in&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
<tr>
<td>// whether this is a parameter &quot;in&quot; or a pipeline &quot;in&quot; will get sorted out a bit later</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqIn;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>OUT</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;out&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
<tr>
<td>// whether this is a parameter &quot;out&quot; or a pipeline &quot;out&quot; will get sorted out a bit later</td>
</tr>
<tr>
<td>$$$.qualifier.storage = EvqOut;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>CENTROID</td>
</tr>
<tr>
<td>parseContext.profileRequires($1.loc, ENoProfile, 120, 0, &quot;centroid&quot;);</td>
</tr>
<tr>
<td>parseContext.profileRequires($1.loc, EEsProfile, 300, 0, &quot;centroid&quot;);</td>
</tr>
<tr>
<td>parseContext.globalCheck($1.loc, &quot;centroid&quot;);</td>
</tr>
<tr>
<td>$$$.init($1.loc);</td>
</tr>
</tbody>
</table>
$$.qualifier.centroid = true;

} | PATCH {
    parseContext.globalCheck($1.loc, "patch");
    parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask | EShLangTessEvaluationMask), "patch");
    $$.init($1.loc);
    $$/.qualifier.patch = true;
}

} | SAMPLE {
    parseContext.globalCheck($1.loc, "sample");
    $$init($1.loc);
    $$/.qualifier.sample = true;
}

} | UNIFORM {
    parseContext.globalCheck($1.loc, "uniform");
    $$init($1.loc);
    $$/.qualifier.storage = EvqUniform;
}

} | BUFFER {
    parseContext.globalCheck($1.loc, "buffer");
    $$init($1.loc);
    $$/.qualifier.storage = EvqBuffer;
}

} | SHARED {
    parseContext.globalCheck($1.loc, "shared");
    parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader, "shared");
    parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
    parseContext.requireStage($1.loc, EShLangCompute, "shared");
    $$init($1.loc);
    $$/.qualifier.storage = EvqShared;
}

} | COHERENT {
    $$init($1.loc);
    $$/.qualifier.coherent = true;
}

} | VOLATILE {
    $$init($1.loc);
    $$/.qualifier.volatile = true;
}

} | RESTRICT {
    $$init($1.loc);
    $$/.qualifier.restrict = true;
}

} | READONLY {
    $$init($1.loc);
    $$/.qualifier.readonly = true;
<table>
<thead>
<tr>
<th>WRITEONLY</th>
</tr>
</thead>
</table>
| ```
$.init($1.loc);
$.qualifier.writeonly = true;
```
<table>
<thead>
<tr>
<th>SUBROUTINE</th>
</tr>
</thead>
</table>
| ```
parseContext.spvRemoved($1.loc, "subroutine");
parseContext.globalCheck($1.loc, "subroutine");
parseContext.unimplemented($1.loc, "subroutine");
$.init($1.loc);
```
<table>
<thead>
<tr>
<th>SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN</th>
</tr>
</thead>
</table>
| ```
parseContext.spvRemoved($1.loc, "subroutine");
parseContext.globalCheck($1.loc, "subroutine");
parseContext.unimplemented($1.loc, "subroutine");
$.init($1.loc);
```
<table>
<thead>
<tr>
<th>type_name_list</th>
</tr>
</thead>
</table>
| ```
: IDENTIFIER |
```
<table>
<thead>
<tr>
<th>type_specifier</th>
</tr>
</thead>
</table>
| ```
: type_specifier_nonarray |
```
<table>
<thead>
<tr>
<th>array_specifier</th>
</tr>
</thead>
</table>
| ```
: LEFT_BRACKET RIGHT_BRACKET |
```
$$.loc = $1.loc;
$$.arraySizes = new TArraySizes;

TArraySize size;
parseContext.arraySizeCheck($2->getLoc(), $2, size);
$$.arraySizes->addInnerSize(size);

$$ = $1;
$$arraySizes->addInnerSize();

$$ = $1;

TArraySize size;
parseContext.arraySizeCheck($3->getLoc(), $3, size);
$$.arraySizes->addInnerSize(size);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtVoid;

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat;

parseContext.doubleCheck($1.loc, "double");
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;

parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;

parseContext.explicitFloat32Check($1.loc, "float32_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat;

parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat64;
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtDouble;
}
| INT {  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtInt;
}
| UINT {  
parseContext.fullIntegerCheck($1.loc, "unsigned integer");  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtUint;
}
| INT8_T {  
parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtInt8;
}
| UINT8_T {  
parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtUint8;
}
| INT16_T {  
parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtInt16;
}
| UINT16_T {  
parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtUint16;
}
| INT32_T {  
parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtInt;
}
| UINT32_T {  
parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtUint;
}
| INT64_T {  
parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());  
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
$$$.basicType = EbtInt64;
}
UINT64_T {
  parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtUint64;
}

BOOL {
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtBool;
}

VEC2 {
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtFloat;
  $$ setVector(2);
}

VEC3 {
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtFloat;
  $$ setVector(3);
}

VEC4 {
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtFloat;
  $$ setVector(4);
}

DVEC2 {
  parseContext.doubleCheck($1.loc, "double vector");
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtDouble;
  $$ setVector(2);
}

DVEC3 {
  parseContext.doubleCheck($1.loc, "double vector");
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtDouble;
  $$ setVector(3);
}

DVEC4 {
  parseContext.doubleCheck($1.loc, "double vector");
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtDouble;
  $$ setVector(4);
}

F16VEC2 {
  parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
  $$ init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$ basicType = EbtFloat16;
  $$ setVector(2);
F16VEC3 {
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setVector(3);
}

F16VEC4 {
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setVector(4);
}

F32VEC2 {
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat;
$$.setVector(2);
}

F32VEC3 {
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat;
$$.setVector(3);
}

F32VEC4 {
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat;
$$.setVector(4);
}

F64VEC2 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setVector(2);
}

F64VEC3 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setVector(3);
}

F64VEC4 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setVector(4);
BVEC2 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtBool;
  $.setVector(2);
}

BVEC3 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtBool;
  $.setVector(3);
}

BVEC4 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtBool;
  $.setVector(4);
}

IVEC2 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt;
  $.setVector(2);
}

IVEC3 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt;
  $.setVector(3);
}

IVEC4 {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt;
  $.setVector(4);
}

I8VEC2 {
  parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt8;
  $.setVector(2);
}

I8VEC3 {
  parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt8;
  $.setVector(3);
}

I8VEC4 {
  parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtInt8;
  $.setVector(4);
I16VEC2 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt16;
    $$_.setVector(2);
}

I16VEC3 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt16;
    $$_.setVector(3);
}

I16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt16;
    $$_.setVector(4);
}

I32VEC2 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt;
    $$_.setVector(2);
}

I32VEC3 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt;
    $$_.setVector(3);
}

I32VEC4 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt;
    $$_.setVector(4);
}

I64VEC2 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$_.basicType = EbtInt64;
    $$_.setVector(2);
| I64VEC3 | parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtInt64;
|        | $$$.setVector(3);
| I64VEC4 | parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtInt64;
|        | $$$.setVector(4);
| UVEC2  | parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtUint;
|        | $$$.setVector(2);
| UVEC3  | parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtUint;
|        | $$$.setVector(3);
| UVEC4  | parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtUint;
|        | $$$.setVector(4);
| U8VEC2 | parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtUint8;
|        | $$$.setVector(2);
| U8VEC3 | parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtUint8;
|        | $$$.setVector(3);
| U8VEC4 | parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
```javascript
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint8;
$.setVector(4);
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    $.basicType = EbtUint16;
    $.setVector(2);
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    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtUint16;
    $.setVector(3);
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| U16VEC4 {
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    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
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    $.setVector(2);
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    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtUint;
    $.setVector(4);
}
| U64VEC2 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector",
    parseContext.symbolTable.atBuiltInLevel());
```
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```c
| U64VEC3 |
| U64VEC4 |
| MAT2   |
| MAT3   |
| MAT4   |
| MAT2X2 |
| MAT2X3 |
| MAT2X4 |
| MAT3X2 |
```

```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(2);
}

| U64VEC3 |
parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(3);
}

| U64VEC4 |
parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(4);
}

| MAT2   |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 2);
}

| MAT3   |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(3, 3);
}

| MAT4   |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(4, 4);
}

| MAT2X2 |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 2);
}

| MAT2X3 |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 3);
}

| MAT2X4 |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 4);
}

| MAT3X2 |
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```
```markdown
$$.basicType = EbtFloat;
$$.setMatrix(3, 2);
}
| MAT3X3 {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtFloat;
  $$\$.setMatrix(3, 3);
}
| MAT3X4 {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtFloat;
  $$\$.setMatrix(3, 4);
}
| MAT4X2 {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtFloat;
  $$\$.setMatrix(4, 2);
}
| MAT4X3 {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtFloat;
  $$\$.setMatrix(4, 3);
}
| MAT4X4 {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtFloat;
  $$\$.setMatrix(4, 4);
}
| DMAT2 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtDouble;
  $$\$.setMatrix(2, 2);
}
| DMAT3 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtDouble;
  $$\$.setMatrix(3, 3);
}
| DMAT4 {
  parseContext.doubleCheck($1.loc, "double matrix");
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtDouble;
  $$\$.setMatrix(4, 4);
}
| DMAT2X2 {
  parseContext.doubleCheck($1.loc, "double matrix");
```

```java
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(2, 2);
}

<table>
<thead>
<tr>
<th>DMAT2X3</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.doubleCheck($1.loc, &quot;double matrix&quot;);</td>
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<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<td>$$$.setMatrix(2, 4);</td>
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<td>$$$.setMatrix(3, 3);</td>
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<td>$$$.setMatrix(3, 4);</td>
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</table>
```
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(4, 4);

}]
| F16MAT2 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(2, 2);
}
| F16MAT3 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(3, 3);
}
| F16MAT4 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(4, 4);
}
| F16MAT2X2 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(2, 2);
}
| F16MAT2X3 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(2, 3);
}
| F16MAT2X4 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(2, 4);
}
| F16MAT3X2 {
parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtFloat16;
$$.setMatrix(3, 2);
}
| F16MAT3X3 {
pars...
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtFloat16;
$$$.setMatrix(3, 3);
}

| F16MAT3X4 {
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
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| F16MAT4X2 {
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| F16MAT4X3 {
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| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(4, 3);
}

| F16MAT4X4 {
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(4, 4);
}

| F32MAT2 {
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat;
| $$$.setMatrix(2, 2);
}

| F32MAT3 {
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat;
| $$$.setMatrix(3, 3);
}

| F32MAT4 {
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| F32MAT3X2 |
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$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
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$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(2, 2);
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| F64MAT3 |
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
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$.basicType = EbtDouble;
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| F64MAT4 |
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
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parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(2, 3);
}
| F64MAT2X4 |
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(2, 4);
}
| F64MAT3X2 |
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(3, 2);
}
| F64MAT3X3 |
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(3, 3);
}
| F64MAT3X4 {
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(3, 4);
}
| F64MAT4X2 {
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(4, 2);
}
| F64MAT4X3 {
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(4, 3);
}
| F64MAT4X4 {
parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setMatrix(4, 4);
}
| ATOMIC_UINT {
parseContext.vulkanRemoved($1.loc, "atomic counter types");
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtAtomicUint;
}
| SAMPLER1D {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtFloat, Esd1D);
}
| SAMPLER2D {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, EsdCube);}$$ |
| } |
| SAMPLER1DSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd1D, false, true);}$$ |
| } |
| SAMPLER2DSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd2D, false, true);}$$ |
| } |
| SAMPLERCUBEARRAY { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, EsdCube, true);}$$ |
| } |
| SAMPLER1DARRAY { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd1D, true);}$$ |
| } |
| SAMPLER2DARRAY { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd2D, true);}$$ |
| } |
| SAMPLER1DARRAYSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd1D, true, true);}$$ |
| } |
| SAMPLER2DARRAYSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, Esd2D, true, true);}$$ |
| } |
| SAMPLERCUBEARRAYSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, EsdCube, true);}$$ |
| } |
| SAMPLERCUBEARRAYSHADOW { |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.set(EbtFloat, EsdCube, true, true);}$$ |
| }
$$s.sampler.set(EbtFloat, EsdCube, true, true);
}

| F16SAMPLER1D |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, Esd1D);
#endif
|
| F16SAMPLER2D |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, Esd2D);
#endif
|
| F16SAMPLER3D |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, Esd3D);
#endif
|
| F16SAMPLERCUBE |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, EsdCube);
#endif
|
| F16SAMPLER1DSHADOW |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
|
| F16SAMPLER2DSHADOW |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$s.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s.basicType = EbtSampler;
    $$s.sampler.set(EbtFloat16, Esd2D, false, true);
```c
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdCube, false, true);
#endif

| F16SAMPLER1DARRAY |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd1D, true);
#endif

| F16SAMPLER2DARRAY |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd2D, true);
#endif

| F16SAMPLER1DARRAYSHADOW |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd1D, true, true);
#endif

| F16SAMPLER2DARRAYSHADOW |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd2D, true, true);
#endif

| F16SAMPLERCUBEARRAY |
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdCube, true);
#endif
```
#ifndef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdCube, true, true);
#endif

<table>
<thead>
<tr>
<th>F16SAMPLERCUBEARRAYSHADOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISAMPLER1D</td>
</tr>
<tr>
<td>ISAMPLER2D</td>
</tr>
<tr>
<td>ISAMPLER3D</td>
</tr>
<tr>
<td>ISAMPLERCUBE</td>
</tr>
<tr>
<td>ISAMPLER1DARRAY</td>
</tr>
<tr>
<td>ISAMPLER2DARRAY</td>
</tr>
<tr>
<td>ISAMPLERCUBEARRAY</td>
</tr>
<tr>
<td>USAMPLER1D</td>
</tr>
</tbody>
</table>
$.sampler.set(EbtUint, Esd1D);
}

<table>
<thead>
<tr>
<th>USAMPLER2D</th>
</tr>
</thead>
<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd2D);</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
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<tr>
<td>$.sampler.set(EbtUint, Esd3D);</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
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<tr>
<td>$.sampler.set(EbtUint, EsdCube);</td>
</tr>
</tbody>
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<th>USAMPLER1DARRAY</th>
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<tbody>
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<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
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<tr>
<td>$.sampler.set(EbtUint, Esd1D, true);</td>
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<tr>
<th>USAMPLER2DARRAY</th>
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<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
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<td>$.sampler.set(EbtUint, Esd2D, true);</td>
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<td>$.basicType = EbtSampler;</td>
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<td>$.sampler.set(EbtUint, EsdCube, true);</td>
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</table>

<table>
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<tr>
<th>SAMPLER2DRECT</th>
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<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtFloat, EsdRect);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLER2DRECTSHADOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtFloat, EsdRect, false, true);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F16SAMPLER2DRECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>#ifdef AMD_EXTENSIONS</td>
</tr>
<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtFloat16, EsdRect);</td>
</tr>
</tbody>
</table>
#ifndef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdRect, false, true);
#endif

}| F16SAMPLER2DRECTSHADOW |

| ISAMPLER2DRECT |

| USAMPLER2DRECT |

| SAMPLERBUFFER |

| F16SAMPLERBUFFER |

| ISAMPLERBUFFER |

| USAMPLERBUFFER |

<p>| SAMPLER2DMS |</p>
<table>
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<tr>
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<tr>
<td>ifdef AMD_EXTENSIONS</td>
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<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtFloat16, Esd2D, false, false, true);</td>
</tr>
<tr>
<td>#endif</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>ISAMPLER2DMS</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtInt, Esd2D, false, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>USAMPLER2DMS</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtUint, Esd2D, false, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>SAMPLER2DMSARRAY</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtFloat, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>F16SAMPLER2DMSARRAY</td>
</tr>
<tr>
<td>ifdef AMD_EXTENSIONS</td>
</tr>
<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtFloat16, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>#endif</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>ISAMPLER2DMSARRAY</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtInt, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
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<td>USAMPLER2DMSARRAY</td>
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<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.set(EbtUint, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>SAMPLER</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$$.sampler.setPureSampler(false);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>SAMPLERSHADOW</td>
</tr>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
</tbody>
</table>
$$$.basicType = EbtSampler;
$$$.sampler.setPureSampler(true);

<table>
<thead>
<tr>
<th>TEXTURE1D</th>
</tr>
</thead>
</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat, Esd1D);

<table>
<thead>
<tr>
<th>F16TEXTURE1D</th>
</tr>
</thead>
</table>
| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat16, Esd1D);
| #endif

<table>
<thead>
<tr>
<th>TEXTURE2D</th>
</tr>
</thead>
</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat, Esd2D);

<table>
<thead>
<tr>
<th>F16TEXTURE2D</th>
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</thead>
</table>
| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat16, Esd2D);
| #endif

<table>
<thead>
<tr>
<th>TEXTURE3D</th>
</tr>
</thead>
</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat, Esd3D);

<table>
<thead>
<tr>
<th>F16TEXTURE3D</th>
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</table>
| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat16, Esd3D);
| #endif

<table>
<thead>
<tr>
<th>TEXTURECUBE</th>
</tr>
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</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$.basicType = EbtSampler;
| $$.sampler.setTexture(EbtFloat, EsdCube);

| F16TEXTURECUBE |
ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$basicType = EbtSampler;
    $$$sampler.setTexture(EbtFloat16, EsdCube);
#endif

<table>
<thead>
<tr>
<th>TEXTURE1DARRAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>F16TEXTURE1DARRAY</td>
</tr>
</tbody>
</table>
ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.setTexture(EbtFloat16, Esd1D, true);
#endif

<table>
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<tr>
<th>TEXTURE2DARRAY</th>
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<tbody>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>F16TEXTURE2DARRAY</td>
</tr>
</tbody>
</table>
ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.setTexture(EbtFloat16, Esd2D, true);
#endif

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<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<td>F16TEXTURECUBEARRAY</td>
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</table>
ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.setTexture(EbtFloat16, EsdCube, true);
#endif

<table>
<thead>
<tr>
<th>ITEXTURE1D</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
</tbody>
</table>
$.basicType = EbtSampler;
$.sampler.setTexture(EbtInt, Esd1D);

| ITEXTURE2D {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, Esd2D);
}

| ITEXTURE3D {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, Esd3D);
}

| ITEXTURECUBE {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, EsdCube);
}

| ITEXTURE1DARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, Esd1D, true);
}

| ITEXTURE2DARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, Esd2D, true);
}

| ITEXTURECUBEARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtInt, EsdCube, true);
}

| UTEXTURE1D {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtUint, Esd1D);
}

| UTEXTURE2D {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtUint, Esd2D);
}

| UTEXTURE3D {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.setTexture(EbtUint, Esd3D);
}
| UTEXTURECUBE { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtUint, EsdCube); |
|} |
| UTEXTURE1DARRAY { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtUint, Esd1D, true); |
|} |
| UTEXTURE2DARRAY { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtUint, Esd2D, true); |
|} |
| UTEXTURECUBEARRAY { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtUint, EsdCube, true); |
|} |
| TEXTURE2DRECT { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtFloat, EsdRect); |
|} |
| F16TEXTURE2DRECT { |
| #ifdef AMD_EXTENSIONS |
| parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel()); |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtFloat16, EsdRect); |
| #endif |
|} |
| ITEXTURE2DRECT { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtInt, EsdRect); |
|} |
| UTEXTURE2DRECT { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtUint, EsdRect); |
|} |
| TEXTUREBUFFER { |
|\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
|\$$.basicType = EbtSampler; |
|\$$.sampler.setTexture(EbtFloat, EsdBuffer); |
|}
<table>
<thead>
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<th>F16TEXTUREBUFFER</th>
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</table>
#pragmaif AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat16, EsdBuffer);
#pragmaendif
|

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$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
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$$$.sampler.setTexture(EbtInt, EsdBuffer);
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$$$.sampler.setTexture(EbtUint, EsdBuffer);
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<tr>
<th>TEXTURE2DMS</th>
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</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat, Esd2D, false, false, true);
|

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</table>
#pragmaif AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
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$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#pragmaendif
|

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$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtUint, Esd2D, false, false, true);
|

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<th>TEXTURE2DMSARRAY</th>
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</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat, Esd2D, true, false, true);
|

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#pragmaif AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#pragmaendif

parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif

} | ITEXTURE2DMSARRAY {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtInt, Esd2D, true, false, true);
}
| UTEXTURE2DMSARRAY {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtUint, Esd2D, true, false, true);
}
| IMAGE1D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd1D);
}
| F16IMAGE1D {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd1D);
#endif
}
| IMAGE1D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd1D);
}
| UIMAGE1D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd1D);
}
| IMAGE2D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd2D);
}
| F16IMAGE2D {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
#endif
}
```cpp
$.basicType = EbtSampler;
$.sampler.setImage(EbtFloat16, Esd2D);
#endif

| IIMAGE2D {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtInt, Esd2D);
}

| UIMAGE2D {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtUint, Esd2D);
}

| IMAGE3D {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtFloat, Esd3D);
}

| F16IMAGE3D {  
#ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtFloat16, Esd3D);
#endif

| IIMAGE3D {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtInt, Esd3D);
}

| UIMAGE3D {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtUint, Esd3D);
}

| IMAGE2DRECT {  
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtFloat, EsdRect);
}

| F16IMAGE2DRECT {  
#ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());  
  $.basicType = EbtSampler;
  $.sampler.setImage(EbtFloat16, EsdRect);
#endif
```
#ifndef
 |
 | IIMAGE2DRECT {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtInt, EsdRect);
 | }
 | UIMAGE2DRECT {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtUint, EsdRect);
 | }
 | IMAGECUBE {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtInt, EsdCube);
 | }
 | IMAGEBUFFER {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtFloat, EsdBuffer);
 | }
 | F16IMAGECUBE {
 | #ifdef AMD_EXTENSIONS
 | parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtFloat16, EsdCube);
 | #endif
 | }
 | IIMAGECUBE {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtInt, EsdCube);
 | }
 | UIMAGECUBE {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtUint, EsdCube);
 | }
 | IMAGEBUFFER {
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtFloat, EsdBuffer);
 | }
 | F16IMAGEBUFFER {
 | #ifdef AMD_EXTENSIONS
 | parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 | $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 | $$.basicType = EbtSampler;
 | $$.sampler.setImage(EbtFloat16, EsdBuffer);
 | #endif
 | }
IIMAGEBUFFER {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtInt, \text{EsdBuffer});
}

| UIMAGEBUFFER {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtUint, \text{EsdBuffer});
}

| IMAGE1DARRAY {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtFloat, \text{Esd1D}, \text{true});
}

| F16IMAGE1DARRAY {
  #ifdef AMD_EXTENSIONS
  \text{parseContext}.float16OpaqueCheck($1.\text{loc}, \text{"half float image"}, \text{symbolTable}.at\text{BuiltInLevel}());
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtFloat16, \text{Esd1D}, \text{true});
  #endif
}

| IIMAGE1DARRAY {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtInt, \text{Esd1D}, \text{true});
}

| UIMAGE1DARRAY {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtUint, \text{Esd1D}, \text{true});
}

| IMAGE2DARRAY {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtFloat, \text{Esd2D}, \text{true});
}

| F16IMAGE2DARRAY {
  #ifdef AMD_EXTENSIONS
  \text{parseContext}.float16OpaqueCheck($1.\text{loc}, \text{"half float image"}, \text{symbolTable}.at\text{BuiltInLevel}());
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler}.setImage(EbtFloat16, \text{Esd2D}, \text{true});
  #endif
}

| IIMAGE2DARRAY {
  $$\text{init}(\text{loc}, \text{symbolTable}.at\text{GlobalLevel}());

$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtInt, Esd2D, true);
}

<table>
<thead>
<tr>
<th>IMAGE2DARRAY</th>
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</table>
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtUint, Esd2D, true);
}

<table>
<thead>
<tr>
<th>IMAGECUBEARRAY</th>
</tr>
</thead>
</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtFloat, EsdCube, true);
}

<table>
<thead>
<tr>
<th>F16IMAGECUBEARRAY</th>
</tr>
</thead>
</table>
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtFloat16, EsdCube, true);
#endif

<table>
<thead>
<tr>
<th>IIMAGECUBEARRAY</th>
</tr>
</thead>
</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtInt, EsdCube, true);
}

<table>
<thead>
<tr>
<th>UIMAGECUBEARRAY</th>
</tr>
</thead>
</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtUint, EsdCube, true);
}

<table>
<thead>
<tr>
<th>IMAGE2DMS</th>
</tr>
</thead>
</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtFloat, Esd2D, false, false, true);
}

<table>
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<th>F16IMAGE2DMS</th>
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</table>
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif

<table>
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</table>
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$.sampler.setImage(EbtInt, Esd2D, false, false, true);
try {
    UIMAGE2DMS {
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setImage(EbtUint, Esd2D, false, false, true);
    }
}

try {
    IMAGE2DMSARRAY {
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setImage(EbtFloat, Esd2D, true, false, true);
    }
}

try {
    F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
            parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
    }
}

try {
    IIMAGE2DMSARRAY {
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setImage(EbtInt, Esd2D, true, false, true);
    }
}

try {
    UIMAGE2DMSARRAY {
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setImage(EbtUint, Esd2D, true, false, true);
    }
}

try {
    SAMPLEREXTERNALOES { // GL_OES_EGL_image_external
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.set(EbtFloat, Esd2D);
        $.sampler.external = true;
    }
}

try {
    SUBPASSINPUT {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setSubpass(EbtFloat);
    }
}

try {
    SUBPASSINPUTMS {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $.basicType = EbtSampler;
        $.sampler.setSubpass(EbtFloat, true);
    }
}

try {
    F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float subpass input");
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$$.basicType = EbtSampler;
    $$.$$.sampler.setSubpass(EbtFloat16);
#endif

<table>
<thead>
<tr>
<th>F16SUBPASSINPUTMS</th>
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</thead>
<tbody>
<tr>
<td>#ifdef AMD_EXTENSIONS</td>
</tr>
<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float subpass input&quot;);</td>
</tr>
<tr>
<td>parseContext.requireStage($1.loc, EShLangFragment, &quot;subpass input&quot;);</td>
</tr>
<tr>
<td>$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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</tbody>
</table>
|     $$.$$.basicType = EbtSampler;
|     $$.$$.sampler.setSubpass(EbtFloat16, true);
| #endif |

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<td>parseContext.requireStage($1.loc, EShLangFragment, &quot;subpass input&quot;);</td>
</tr>
<tr>
<td>$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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</table>
| $$.$$.basicType = EbtSampler;
| $$.$$.sampler.setSubpass(EbtInt); |

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<td>parseContext.requireStage($1.loc, EShLangFragment, &quot;subpass input&quot;);</td>
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<tr>
<td>$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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</table>
| $$.$$.basicType = EbtSampler;
| $$.$$.sampler.setSubpass(EbtInt, true); |

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<td>parseContext.requireStage($1.loc, EShLangFragment, &quot;subpass input&quot;);</td>
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<td>$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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| $$.$$.basicType = EbtSampler;
| $$.$$.sampler.setSubpass(EbtUint); |

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<td>$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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</table>
| $$.$$.basicType = EbtSampler;
| $$.$$.sampler.setSubpass(EbtUint, true); |

<table>
<thead>
<tr>
<th>struct_specifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$ = $1;</td>
</tr>
<tr>
<td>$$.$$.qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;</td>
</tr>
<tr>
<td>parseContext.structTypeCheck($$.loc, $$);</td>
</tr>
</tbody>
</table>
| TYPE_NAME {
//
// This is for user defined type names. The lexical phase looked up the
// type.
//
if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
    const TType& structure = variable->getType();
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtStruct;
    $$$.userDef = &structure;
} else
    parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
}

precision_qualifier
  : HIGH_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$$.qualifier, EpqHigh);
  }
  | MEDIUM_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$$.qualifier, EpqMedium);
  }
  | LOW_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$$.qualifier, EpqLow);
  }
  ;

struct_specifier
  : STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
  RIGHT_BRACE {
    TType* structure = new TType($5, *$2.string);
    parseContext.structArrayCheck($2.loc, *structure);
    TVariable* userTypeDef = new TVariable($2.string, *structure, true);
    if (!parseContext.symbolTable.insert(*userTypeDef))
        parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
    $$$.init($1.loc);
    $$$.basicType = EbtStruct;
    $$$.userDef = structure;
    --parseContext.structNestingLevel;
  }
  | STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list RIGHT_BRACE {
    TType* structure = new TType($4, TString(""));
$$\text{init}($1.loc)$;
$$\text{basicType} = \text{EbtStruct}$;
$$\text{userDef} = \text{structure}$;
--parseContext.structNestingLevel;
}
;

\text{struct\_declaration\_list}
  : struct\_declaration {
    $$ = $1;
  }
| struct\_declaration\_list struct\_declaration {
    $$ = $1;
    for (unsigned int i = 0; i < $2->size(); ++i) {
      for (unsigned int j = 0; j < $$->size(); ++j) {
        if (($$)[j].type->getFieldName() == ($2)[i].type->getFieldName())
          parseContext.error(($2)[i].loc, "duplicate member name: ", ", "",(\*\$)[j].type->getFieldName().c\_str());
      }
      $$->push\_back(($2)[i]);
    }
  }
;

\text{struct\_declaration}
  : type\_specifier struct\_declarator\_list SEMICOLON {
    if ($1.arraySizes) {
      parseContext.profileRequires($1.loc, ENoProfile, 120, E\_GL\_3DL\_array\_objects, "arrayed type");
      parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
      if (parseContext.profile == EEsProfile)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    $$ = $2;

    parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
    parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);
    for (unsigned int i = 0; i < $$->size(); ++i) {
      parseContext.arrayDimCheck($1.loc, ($$)[i].type, $1.arraySizes);
      (\*$$)[i].type->mergeType($1);
    }
  } | type\_qualifier type\_specifier struct\_declarator\_list SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    if ($2.arraySizes) {
      parseContext.profileRequires($2.loc, ENoProfile, 120, E\_GL\_3DL\_array\_objects, "arrayed type");
      parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
      if (parseContext.profile == EEsProfile)
parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
}

$$ = $3;

parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

for (unsigned int i = 0; i < $$->size(); ++i) {
    parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);
    (*$$)[i].type->mergeType($2);
}
;

struct_declarator_list
: struct_declarator {
$$ = new TTypeList;
$$->push_back($1);
}
| struct_declarator_list COMMA struct_declarator {
$$->push_back($3);
}
;

struct_declarator
: IDENTIFIER {
$$ .type = new TType(EbtVoid);
$$ .loc = $1.loc;
$$ .type->setFieldName(*$1.string);
}
| IDENTIFIER array_specifier {
    parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0);

    $$ .type = new TType(EbtVoid);
    $$ .loc = $1.loc;
    $$ .type->setFieldName(*$1.string);
    $$ .type->newArraySizes(*$2.arraySizes);
}
;

initializer
: assignment_expression {
$$ = $1;
}
| LEFT_BRACE initializer_list RIGHT_BRACE {
const char* initFeature = "{ } style initializers";
parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
$$ = $2;
}

| LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
| const char* initFeature = "{ } style initializers";
| parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
| parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
| $$ = $2;
| };

initializer_list
: initializer {
  $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
}
| initializer_list COMMA initializer {
  $$ = parseContext.intermediate.growAggregate($1, $3);
}
| ;

declaration_statement
: declaration { $$ = $1; };

statement
: compound_statement { $$ = $1; }
| simple_statement { $$ = $1; }
| ;

// Grammar Note: labeled statements for switch statements only; ‘goto’ is not supported.

simple_statement
: declaration_statement { $$ = $1; }
| expression_statement { $$ = $1; }
| selection_statement { $$ = $1; }
| switch_statement { $$ = $1; }
| case_label { $$ = $1; }
| iteration_statement { $$ = $1; }
| jump_statement { $$ = $1; }
| ;

compound_statement
: LEFT_BRACE RIGHT_BRACE { $$ = 0; }
| LEFT_BRACE {
  parseContext.symbolTable.push();
  ++parseContext.statementNestingLevel;
}
statement_list {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
}

RIGHT_BRACE {
    if ($3 && $3->getAsAggregate())
        $3->getAsAggregate()->setOperator(EOpSequence);
    $$ = $3;
}

statement_no_new_scope
    : compound_statement_no_new_scope { $$ = $1; }
    | simple_statement { $$ = $1; }

statement_scoped
    : {
        ++parseContext.controlFlowNestingLevel;
    }
    compound_statement {
        --parseContext.controlFlowNestingLevel;
        $$ = $2;
    }
    | {
        parseContext.symbolTable.push();
        ++parseContext.statementNestingLevel;
        ++parseContext.controlFlowNestingLevel;
    }
    simple_statement {
        parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
        --parseContext.statementNestingLevel;
        --parseContext.controlFlowNestingLevel;
        $$ = $2;
    }

compound_statement_no_new_scope
    // Statement that doesn’t create a new scope, for selection_statement, iteration_statement
    : LEFT_BRACE RIGHT_BRACE {
        $$ = 0;
    }
    | LEFT_BRACE statement_list RIGHT_BRACE {
        if ($2 && $2->getAsAggregate())
            $2->getAsAggregate()->setOperator(EOpSequence);
        $$ = $2;
    }
statement_list :
  : statement {
    $$ = parseContext.intermediate.makeAggregate($1);
    if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase || $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
      parseContext.wrapupSwitchSubsequence(0, $1);
      $$ = 0; // start a fresh subsequence for what's after this case
    }
  }

| statement_list statement {
  if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase || $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
    parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate() : 0, $2);
    $$ = 0; // start a fresh subsequence for what's after this case
  } else
    $$ = parseContext.intermediate.growAggregate($1, $2);
  }

expression_statement :
  : SEMICOLON { $$ = 0; }
  | expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }

selection_statement :
  : selection_statement_nonattributed {
    $$ = $1;
  }
  | attribute selection_statement_nonattributed {
    parseContext.handleSelectionAttributes($$1, $2);
    $$ = $2;
  }

selection_statement_nonattributed :
  : IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
    parseContext.boolCheck($1.loc, $3);
    $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
  }

selection_rest_statement :
  : statementScoped ELSE statementScoped {
    $$ .node1 = $1;
    $$ .node2 = $3;
  }
  | statementScoped {
    $$ .node1 = $1;
```cpp
$.node2 = 0;
;
condition
  // In 1996 c++ draft, conditions can include single declarations
  : expression {
    $S = $1;
    parseContext.boolCheck($1->getLoc(), $1);
  }
  | fully_specified_type IDENTIFIER EQUAL initializer {
    parseContext.boolCheck($2.loc, $1);
    TType type($1);
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    if (initNode)
      $$ = initNode->getAsTyped();
    else
      $$ = 0;
  }
  :

switch_statement
  : switch_statement_nonattributed {
    $$ = $1;
  }
  | attribute switch_statement_nonattributed {
    parseContext.handleSwitchAttributes(*$1, $2);
    $$ = $2;
  }

switch_statement_nonattributed
  : SWITCH LEFT_PAREN expression RIGHT_PAREN {
    // start new switch sequence on the switch stack
    ++parseContext.controlFlowNestingLevel;
    ++parseContext.statementNestingLevel;
    parseContext.switchSequenceStack.push_back(new TIntermSequence);
    parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
    parseContext.symbolTable.push();
  }
  LEFT_BRACE switch_statement_list RIGHT_BRACE {
    $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
    delete parseContext.switchSequenceStack.back();
    parseContext.switchSequenceStack.pop_back();
    parseContext.switchLevel.pop_back();
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
  }
```

switch_statement_list:
  /* nothing */ {
    $$ = 0;
  }
  | statement_list {
    $$ = $1;
  }
  :

case_label:
  : CASE expression COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
      parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
      parseContext.error($1.loc, "cannot be nested inside control flow", "case", "");
    else {
      parseContext.constantValueCheck($2, "case");
      parseContext.integerCheck($2, "case");
      $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
    }
  }
  | DEFAULT COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
      parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
      parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
    else
      $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
  }
  :

iteration_statement:
  : iteration_statement_nonattributed {
    $$ = $1;
  }
  | attribute iteration_statement_nonattributed {
    parseContext.handleLoopAttributes(*$1, $2);
    $$ = $2;
  }
  :

iteration_statement_nonattributed:
  : WHILE LEFT_PAREN {
    if (! parseContext.limits.whileLoops)
parseContext.error($1.loc, "while loops not available", "limitation", "");
parseContext.symbolTable.push();
++parseContext.loopNestingLevel;
++parseContext.statementNestingLevel;
++parseContext.controlFlowNestingLevel;
}
condition RIGHT_PAREN statement_no_new_scope {
parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
$$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
--parseContext.loopNestingLevel;
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
| DO {
  ++parseContext.loopNestingLevel;
  ++parseContext.statementNestingLevel;
  ++parseContext.controlFlowNestingLevel;
}
statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
  if (! parseContext.limits.whileLoops)
    parseContext.error($1.loc, "do-while loops not available", "limitation", "");
parseContext.boolCheck($8.loc, $6);
$$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
--parseContext.loopNestingLevel;
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
| FOR LEFT_PAREN {
parseContext.symbolTable.push();
++parseContext.loopNestingLevel;
++parseContext.statementNestingLevel;
++parseContext.controlFlowNestingLevel;
}
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
$$ = parseContext.intermediate.makeAggregate($4, $2.loc);
TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>(forLoop),
reinterpret_cast<TIntermTyped*>(forLoop), true, $1.loc);
if (! parseContext.limits.nonInductiveForLoops)
  parseContext.inductiveLoopCheck($1.loc, $4, forLoop);
$$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
$$->getAsAggregate()->setOperator(EOpSequence);
--parseContext.loopNestingLevel;
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
for_init_statement
 : expression_statement {
   $$ = $1;
 }
 | declaration_statement {
   $$ = $1;
 }
 | ;

conditionopt
 : condition {
   $$ = $1;
 }
 | /* May be null */ {
   $$ = 0;
 }
 | ;

for_rest_statement
 : conditionopt SEMICOLON {
   $$node1 = $1;
   $$node2 = 0;
 }
 | conditionopt SEMICOLON expression {
   $$node1 = $1;
   $$node2 = $3;
 }
 | ;

jump_statement
 : CONTINUE SEMICOLON {
   if (parseContext.loopNestingLevel <= 0)
     parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
   $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
 }
 | BREAK SEMICOLON {
   if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
     parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
   $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
 }
 | RETURN SEMICOLON {
   $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
   if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
     parseContext.error($1.loc, "non-void function must return a value", "return", "");
   if (parseContext.inMain)
     parseContext.postEntryPointReturn = true;
| RETURN expression SEMICOLON {
$$ = parseContext.handleReturnValue($1.loc, $2);
}

| DISCARD SEMICOLON {
parseContext.requireStage($1.loc, EShLangFragment, "discard");
$$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
}
|

// Grammar Note: No `goto`. Gotos are not supported.

translation_unit : external_declaration {
$$ = $1;
parseContext.intermediate.setTreeRoot($$);
}
| translation_unit external_declaration {
if ($2 != nullptr) {
$$ = parseContext.intermediate.growAggregate($1, $2);
pauseContext.intermediate.setTreeRoot($$);
}
}
|

external_declaration : function_definition {
$$ = $1;
}
| declaration {
$$ = $1;
}
| SEMICOLON {
pauseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
pauseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
$$ = nullptr;
}
|

function_definition : function_prototype {
$.function = pauseContext.handleFunctionDeclarator($1.loc, *$.function, false /* not prototype */);
$.intermNode = parseContext.handleFunctionDefinition($1.loc, *$.function);
}

compound_statement_no_new_scope {
// May be best done as post process phase on intermediate code
if (pauseContext.currentFunctionType->getBasicType() != EbtVoid && ! pauseContext.functionReturnsValue)
pauseContext.error($1.loc, "function does not return a value: ", "", $.function->getName().c_str());
parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
$$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
$$->getAsAggregate()->setName($1.function->getMangledName().c_str());

// store the pragma information for debug and optimize and other vendor specific
// information. This information can be queried from the parse tree
$$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
$$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
$$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
}
;

attribute
  : LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
    $$ = $3;
    parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
  }

attribute_list
  : single_attribute {
    $$ = $1;
  }
  | attribute_list COMMA single_attribute {
    $$ = parseContext.mergeAttributes($1, $3);
  }

single_attribute
  : IDENTIFIER {
    $$ = parseContext.makeAttributes(*$1.string);
  }
  | IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
    $$ = parseContext.makeAttributes(*$1.string, $3);
  }

%%%

Found in path(s):
* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-targ.gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/glslang.y
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/* Bison implementation for Yacc-like parsers in C


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- `/opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-targetgz/KhronosGroup-glslang-5798d23/StandAlone/ResourceLimits.h`
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- `/opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-targetgz/KhronosGroup-glslang-5798d23/gtests/TestFixture.h`
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/* Bison interface for Yacc-like parsers in C


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* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-target/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/InfoSink.cpp
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1.352 @gar/promisify 1.1.2

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1.353 jackson-jaxrs 2.9.9
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1.355 libsanitizer 11.2.0

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
          "2 clause bsd", "simplified bsd license"},
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: "All rights reserved.

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`}
}

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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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package cmd

import (    "strings"    "time"    "github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of    // the license, its possible matches (on the command line as given to cobra),    // the header to be used with each file on the file's creating, and the text    // of the license

func init() {    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()    initMit()    initBsdClause3()    initBsdClause2()    initGpl2()    initGpl3()    initLgpl()    initAgpl()
}

// getLicense returns license specified by user in flag or in config.    // If user didn't specify the license, it returns Apache License 2.0.    //    // TODO: Inspect project for existing license

func getLicense() License {

// If explicitly flagged, use that.
if userLicense != "" {
    return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                   Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright  " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
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(at your option) any later version.

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```
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        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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Version 3, 19 November 2007

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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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//
//
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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1.367 libusb 1.0.21-2

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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/helpers/NullEnumeration.java
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 */

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* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/xml/DOMConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Level.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/OptionHandler.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/BasicConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/Configurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/HierarchyEventListener.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/MDC.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/Filter.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/spi/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Category.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/PropertyConfigurator.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/ConsoleAppender.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Category.java
* /opt/ws_local/PERMITS_SQL/1014254129_1594628093.81/0/log4j-over-slf4j-2-0-0-alpha1-sources-jar/org/apache/log4j/Priority.java
1.374 webencodings 0.5

1.374.1 Available under license:

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from setuptools import setup, find_packages
import io
import re

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

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip().group(1)
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    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 :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/setup.py

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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/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/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 Python.

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/README.rst

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Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
License: BSD
Description: python-webencodings

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1`` tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/PKG-INFO
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings.egg-
  info/PKG-INFO
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```python
webencodings.mklabels

Regenerate the webencodings.labels module.

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

def assert_lower(string):
    assert string == string.lower()
    return string
def generate(url):
    parts = [""
    
webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.
    
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    # XXX Do not edit!
    # This file is automatically generated by 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,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

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

    Found in path(s):
    * /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.375 kubernetes-apimachinery 0.0.0-20191004115801-a2eda9f80ab8
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1.376 armon-go-metrics 0.3.3

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1.377 sprig 3.0.2
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1.378 libidn 2.0.4-1.1ubuntu0.2
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.
Contributors to this code include:

Kevin Hughes, kevinh@puluahcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:

  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

  Old:  directive URL [x,y ...]
  New:  directive URL "Menu text" [x,y ...]
        or:  directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
  version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server
  structures passed to them where necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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

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

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

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

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

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

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

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

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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Source Files
-------------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available
from

  http://www.ijs.si/software/snprintf/  .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com>
  and David Slattengren <slatteng@Xinet.COM>. These files have been part
  of the original Berkeley ditroff distribution, without AT&T code, and
  are in the public domain.

The original package can be found at

  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
  and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
  src/devices/xditview/GXditview.ad
  src/devices/xditview/Menu.h
  src/devices/xditview/ad2c
  src/devices/xditview/device.c
  src/devices/xditview/device.h
  src/devices/xditview/draw.c
  src/devices/xditview/font.c
  src/devices/xditview/gray1.bm
  src/devices/xditview/gray2.bm
  src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lem.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at
ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>' , e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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1.397 python-jsonpointer 1.10-1

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 *
 * Author: Adam Dunkels <adam@sics.se>
 *
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1.401 dosfs-tools 4.1

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## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name>:\<path\>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name>:\<path\>`

```bash
```
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `:<namespace>:`.

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

### 1.406 prime 0.1.0

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1.426 libunwind 1.2.1 8

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1.427 azure-sdk-for-go 49.2.0+incompatible

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1.429 browser-stdout 1.3.1

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1.431 libasound 1.1.3-5ubuntu0.6

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1.432 acpid 2.0.28-1ubuntu1

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1.440 antchfx-xmlquery 1.3.5

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1.442 prometheus-procfs 0.6.0

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1.452 rssh 2.3.4-7ubuntu0.1

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1.455 go-openapi-spec 0.19.14

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package spec

import (
    "encoding/json"
    "testing"

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

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

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

func TestIntegrationLicense(t *testing.T) {
    // const licenseYAML = "name: the name\nurl: the url"

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

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

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import (``
  "encoding/json"
  "github.com/go-openapi/swag"
)

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

type LicenseProps struct {
  Name string `json:"name,omitempty"`
  URL string `json:"url,omitempty"`
}

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

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

1.456 soheilhy-cmux 0.1.4
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#
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1.457 gc 7.4.2-8ubuntu1

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1.458 python-defaults 3.6.7-1~18.04
1.458.1 Available under license:

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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1.462 mna-redisc 1.1.7

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1.463 parse-conflict-json 2.0.1

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1.465 libjson-c3 0.12.1 1.3ubuntu0.3

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1.467 go-uber-org-atomic v1.5.0

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1.468 importlib-metadata 4.8.2

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1.469 nanoid 3.1.25

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1.473 x-sys 0.0.0-20191220142924-d4481acd189f

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "_acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "_acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "_acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_delete_file, "_acl_delete_file", "%s("%s", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NRfcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
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{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, print_fpathconf, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
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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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2.7 2.6 2010 PSF yes

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import "fmt"

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

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += " + " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                                // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
                                // in the corefile.
)
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

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

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**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.

## Local to Remote
Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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class simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
    }
}
type LicenseManager struct {
    mo.LicenseManager
}

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

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

    return m
}

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

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

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

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

    return body
}

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

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

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

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

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

    body.Res = new(types.UpdateLicenseLabelResponse)
    for j := range license.Labels {
        label := &license.Labels[j]

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

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

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

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

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

    return body
}

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

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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1.497 stax-api 1.0.1

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1.498 libevent 2.1.8-stable-4build1

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1.500 golang-protobuf-extensions 1.0.1

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## controller-manager-library

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import (  
  "encoding/json"
  "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a/licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

type LicenseProps struct {
  Name  string `json:"name,omitempty"`
  URL   string `json:"url,omitempty"`
}

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

func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  return b1, err
}
if err != nil {
    return nil, err
}

b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
    return nil, err
}

return swag.ConcatJSON(b1, b2), nil

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Protocol Buffers for Go with Gadgets

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

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## Container Images

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# Notices for GardenerLoki output plugin

This plugin extends [Grafana/Loki](https://github.com/grafana/loki) [fluent-bit output plugin v1.6.0](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) which aims to forward log messages from fluent-bit to Loki. It is maintained by SAP.

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## Modifications

After copying the original plugin from [Grafana/Loki](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) the files, which was in one single directory, was splitted to different packages. Then a controller package was added. The controller use shared informer to watch for namespaces and process the CREATE, UPDATE, DELETE Events. The `loki.go` file was modified to implement a function for storing the new controller and to search for the dynamic host path in the currently processing log entry. The `config.go` was modified to parse additional properties needed for the new functionality. `loki.go` was split to `loki.go` and `utils.go` to separate methods from helper functions. `out_loki.go` was modified to initialize cluster kubernetes client and make a shared informer which will be passed to each controller.

Paul Borman <borman@google.com>
bmatsuo
shawnps
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1.504 tunnel-agent 0.6.0

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1.513 parse 0.0.0-20190718012654-fb15b899a751

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1.515 aws-sdk-go-v2 1.1.0
1.515.1 Available under license :
    // Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
        addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}
func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
        return err
    }
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/awssmithy-go/middleware"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...
    func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }
result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil

type ListReceivedLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListReceivedLicensesOutput struct {
    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
  return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
  return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
  return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
  return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
}
if err = addClientUserAgent(stack); err != nil {
  return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
  return err
}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string
// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSinnerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{ }  
    }  
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
}
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

ResultMetadata middleware.Metadata
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import {
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {
  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
  *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:        region,
    ServiceID:     ServiceID,
    SigningName:   "license-manager",
    OperationName: "CheckoutBorrowLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (*Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  
  return nil
}
result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil

// Filters to scope the results. The following filters are supported:
//
// * Beneficiary
//
// * ProductSKU
//
// * KeyFingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
    if err != nil {
        return err
    }
}
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}
package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckInLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckInLicenseInput struct {
  // License consumption token.
  // This member is required.
  LicenseConsumptionToken *string

  // License beneficiary.
  Beneficiary *string
}

type CheckInLicenseOutput struct {
  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)

}
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.516 github.com/cyphar/filepath-securejoin
v0.2.2

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1.517 metrics-graphite 4.1.16
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No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 11
Bundle-Description: A reporter for Metrics which announces measurements to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.graphite;uses="com.codahale.metrics,com.rabbitmq.client,javax.net";version="4.1.16"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1,5)";com.rabbitmq.client;version="[5.10,6)";javax.net,org.slf4j;version="[1.6.0,2.0.0)"
Private-Package: com.codahale.metrics.graphite
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1171050207_1622804505.18/0/metrics-graphite-4-1-16-jar/META-INF/MANIFEST.MF

1.518 google-go-cmp 0.5.2

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1.519 iproute 4.15.0 2ubuntu1.3

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History of the software

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

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

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

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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
-----------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll
----------

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Select kqueue
------------

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SipHash24
--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

```c
/*ãiîèîíîãîêèòåëå ñîäåðæèíå ïðîèñõîäèòü èíôîðìàöèþ äåîáèëüíîãî êîìïëåêòíîãî íàêðåï÷åíèÿ. */
```

OpenSSL
-------

The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use the OpenSSL library for added performance if made available by the operating system. Additionally, the Windows and Mac OS X installers for Python may include a copy of the OpenSSL libraries, so we include a copy of the OpenSSL license here::

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cfuhash

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</tr>
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<tr>
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1.527 libffi 3.2.1 8

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1.528 dash 0.5.8-2.10

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1.539 argpase 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, 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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1.543 minipass-fetch 1.4.1

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https://github.com/bitinn/node-fetch

1.544 go.uber.org/atomi 1.7.0
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1.545 libpsl 0.19.1-5build1
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1.558 async-http 0.54.0

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# Async::HTTP

An asynchronous client and server implementation of HTTP/1.0, HTTP/1.1 and HTTP/2 including TLS. Support for streaming requests and responses. Built on top of [async](https://github.com/socketry/async) and [async-io](https://github.com/socketry/async-io). [falcon](https://github.com/socketry/falcon) provides a rack-compatible server.


## Installation

Add this line to your application's Gemfile:

```ruby
```

```
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install async-http
```

## Usage

### Post JSON data

Here is an example showing how to post a data structure as JSON to a remote resource:

```ruby
#!/usr/bin/env ruby
require 'json'
require 'async'
```
require 'async/http/internet'

data = {'life' => 42}

Async do
  # Make a new internet:
  internet = Async::HTTP::Internet.new

  # Prepare the request:
  headers = [['accept', 'application/json']]
  body = [JSON.dump(data)]

  # Issues a POST request:
  response = internet.post("https://httpbin.org/anything", headers, body)

  # Save the response body to a local file:
  pp JSON.parse(response.read)
  ensure
  # The internet is closed for business:
  internet.close
end
```
Consider using [async-rest](https://github.com/socketry/async-rest) instead.

### Multiple Requests

To issue multiple requests concurrently, you should use a barrier, e.g.

```ruby
#!/usr/bin/env ruby
#!/usr/bin/env ruby

require 'async'
require 'async/barrier'
require 'async/http/internet'

TOPICS = ['ruby', 'python', 'rust']

Async do
  internet = Async::HTTP::Internet.new
  barrier = Async::Barrier.new

  # Spawn an asynchronous task for each topic:
  TOPICS.each do |topic|
    barrier.async do
      response = internet.get "https://www.google.com/search?q=#{topic}"
      puts "Found #{topic}: #{response.read.scan(topic).size} times."
    end
  end
end
```
```ruby
#!/usr/bin/env ruby

require 'async'
require 'async/barrier'
require 'async/semaphore'
require 'async/http/internet'

TOPICS = ['ruby', 'python', 'rust']

Async do
  internet = Async::HTTP::Internet.new
  barrier = Async::Barrier.new
  semaphore = Async::Semaphore.new(2, parent: barrier)

  TOPICS.each do |topic|
    semaphore.async do
      response = internet.get 'https://www.google.com/search?q=#{topic}'
      puts 'Found #{topic}: #{response.read.scan(topic).size} times.'
    end
  end

  # Ensure we wait for all requests to complete before continuing:
  barrier.wait
  ensure
  internet&.close
end
```

### Limiting Requests

If you need to limit the number of simultaneous requests, use a semaphore.

```ruby
require 'async'
require 'async/barrier'
require 'async/semaphore'
require 'async/http/internet'

TOPICS = ['ruby', 'python', 'rust']

Async do
  internet = Async::HTTP::Internet.new
  barrier = Async::Barrier.new
  semaphore = Async::Semaphore.new(2, parent: barrier)

  TOPICS.each do |topic|
    semaphore.async do
      response = internet.get 'https://www.google.com/search?q=#{topic}'
      puts 'Found #{topic}: #{response.read.scan(topic).size} times.'
    end
  end

  # Ensure we wait for all requests to complete before continuing:
  barrier.wait
  ensure
  internet&.close
end
```

### Downloading a File

Here is an example showing how to download a file and save it to a local path:

```ruby
```
#!/usr/bin/env ruby

require 'async'
require 'async/http/internet'

Async do
  # Make a new internet:
  internet = Async::HTTP::Internet.new

  # Issues a GET request to Google:
  response = internet.get("https://www.google.com/search?q=kittens")

  # Save the response body to a local file:
  response.save("/tmp/search.html")
  ensure
  # The internet is closed for business:
  internet.close
end

### Basic Client/Server

Here is a basic example of a client/server running in the same reactor:

```ruby
#!/usr/bin/env ruby

require 'async'
require 'async/http/server'
require 'async/http/client'
require 'async/http/endpoint'
require 'async/http/protocol/response'

endpoint = Async::HTTP::Endpoint.parse('http://127.0.0.1:9294')

app = lambda do |request|
  Protocol::HTTP::Response[200, {}, ['Hello World']]
end

server = Async::HTTP::Server.new(app, endpoint)
client = Async::HTTP::Client.new(endpoint)

Async do |task|
  server_task = task.async do
    server.run
  end

  response = client.get('/')
```

puts response.status
puts response.read

server_task.stop
end

### Advanced Verification

You can hook into SSL certificate verification to improve server verification.

```ruby
require 'async'
require 'async/http'

# These are generated from the certificate chain that the server presented.
trusted_fingerprints = {
  "dac9024f54d8f6df94935fb1732638ca6ad77c13" => true,
  "e6a3b45b062d509b3382282d196efe97d5956cc6" => true,
  "07d63f4c05a03f1c306f9941b8ebf57598719ea2" => true,
  "e8d994f44ff20de78dbff4e59d7da93900572bfb" => true,
}

Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.codeotaku.com/index")

  # This is a quick hack/POC:
  ssl_context = endpoint.ssl_context

  ssl_context.verify_callback = proc do [verified, store_context]
    certificate = store_context.current_cert
    fingerprint = OpenSSL::Digest::SHA1.new(certificate.to_der).to_s

    if trusted_fingerprints.include?(fingerprint)
      true
    else
      Async.logger.warn("Untrusted Certificate Fingerprint"){fingerprint}
      false
    end
  end

  endpoint = endpoint.with(ssl_context: ssl_context)

  client = Async::HTTP::Client.new(endpoint)

  response = client.get(endpoint.path)
```
### Timeouts

Here's a basic example with a timeout:

```ruby
#!/usr/bin/env ruby
require 'async/http/internet'

Async do |task|
  internet = Async::HTTP::Internet.new

  # Request will timeout after 2 seconds
  task.with_timeout(2) do
    response = internet.get "https://httpbin.org/delay/10"
  end
  rescue Async::TimeoutError
    puts "The request timed out"
  ensure
    internet&.close
  end
end
```

## Performance

On a 4-core 8-thread i7, running `ab` which uses discrete (non-keep-alive) connections:

```
$ ab -c 8 -t 10 http://127.0.0.1:9294/
This is ApacheBench, Version 2.3 <$Revision: 1757674 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 127.0.0.1 (be patient)
Completed 5000 requests
Completed 10000 requests
Completed 15000 requests
Completed 20000 requests
Completed 25000 requests
Completed 30000 requests
Completed 35000 requests
Completed 40000 requests
Completed 45000 requests
Completed 50000 requests
Finished 50000 requests
```
Server Software:
Server Hostname: 127.0.0.1
Server Port: 9294

Document Path: /
Document Length: 13 bytes

Concurrency Level: 8
Time taken for tests: 1.869 seconds
Complete requests: 50000
Failed requests: 0
Total transferred: 2450000 bytes
HTML transferred: 650000 bytes
Requests per second: 26755.55 [#/sec] (mean)
Time per request: 0.299 [ms] (mean)
Time per request: 0.037 [ms] (mean, across all concurrent requests)
Transfer rate: 1280.29 [Kbytes/sec] received

Connection Times (ms)

<table>
<thead>
<tr>
<th></th>
<th>min</th>
<th>mean[+/-sd]</th>
<th>median</th>
<th>max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect</td>
<td>0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Processing</td>
<td>0</td>
<td>0.2</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Waiting</td>
<td>0</td>
<td>0.2</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>0</td>
<td>0.2</td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

Percentage of the requests served within a certain time (ms)

<table>
<thead>
<tr>
<th>Time</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>0</td>
</tr>
<tr>
<td>66%</td>
<td>0</td>
</tr>
<tr>
<td>75%</td>
<td>0</td>
</tr>
<tr>
<td>80%</td>
<td>0</td>
</tr>
<tr>
<td>90%</td>
<td>0</td>
</tr>
<tr>
<td>95%</td>
<td>1</td>
</tr>
<tr>
<td>98%</td>
<td>1</td>
</tr>
<tr>
<td>99%</td>
<td>1</td>
</tr>
<tr>
<td>100%</td>
<td>6</td>
</tr>
</tbody>
</table>

On a 4-core 8-thread i7, running `wrk`, which uses 8 keep-alive connections:

$ wrk -c 8 -d 10 -t 8 http://127.0.0.1:9294/
Running 10s test @ http://127.0.0.1:9294/
8 threads and 8 connections
Thread Stats          Avg     Stdev  Max     +/- Stdev
  Latency     217.69us  0.99ms   23.21ms   97.39%
  Req/Sec     12.18k    1.58k   17.67k    83.21%
974480 requests in 10.10s, 60.41MB read
Requests/sec: 96485.00
According to these results, the cost of handling connections is quite high, while general throughput seems pretty decent.

### Semantic Model

#### Scheme

HTTP/1 has an implicit scheme determined by the kind of connection made to the server (either `http` or `https`), while HTTP/2 models this explicitly and the client indicates this in the request using the `:scheme` pseudo-header (typically `https`). To normalize this, `Async::HTTP::Client` and `Async::HTTP::Server` have a default scheme which is used if none is supplied.

#### Version

HTTP/1 has an explicit version while HTTP/2 does not expose the version in any way.

#### Reason

HTTP/1 responses contain a reason field which is largely irrelevant. HTTP/2 does not support this field.

### Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

### See Also

- [falcon](https://github.com/socketry/falcon) A rack compatible server built on top of `async-http`.
- [async-websocket](https://github.com/socketry/async-websocket) Asynchronous client and server websockets.
- [async-rest](https://github.com/socketry/async-rest) A RESTful resource layer built on top of `async-http`.

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* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/client.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/spec/async/http/body/slowloris_spec.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/spec/async/http/endpoint_spec.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/server.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/response.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/connection.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/spec/async/http/statistics_spec.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/spec/async/http/endpoint_spec.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/body/pipe.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/output.rb
1.559 npm-profile 5.0.4

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        {formatter.Context{Format: "{{InvalidFunction}}"},
            `Template parsing error: template: :1: function "InvalidFunction" not defined`
        },
        {formatter.Context{Format: "{{nil}}"},
            `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command`
        },
        // Table format
    }
}
<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>

1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01

OWNER
owner1
owner2

OWNER
owner1
owner2

// Raw Format

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

license: id2
name: name2
owner: owner2
components: compstring

// Custom Format
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
    },
    {
        Num: 2,
        Owner: "owner2",
        Subscription: model.Subscription{
            ID: "id2",
            Name: "name2",
            ProductID: "productid2",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 20,
                },
            },
            ComponentsString: "compstring",
        },
    }
}
out := &bytes.Buffer{ }
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
}
expectedJSONs := []map[string]interface{}{
    {
        "Owner": "owner1",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id1",
        "Start": nil,
        "Name": "name1",
        "Num": float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(10),
            },
        },
        "ProductID": "productid1",
        "ProductRatePlan": "",
        "ProductRatePlanID": "",
        "State": "",
        "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
    },
    {
        "Owner": "owner2",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id2",
        "Start": nil,
        "Name": "name2",
        "Num": float64(2),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(20),
            },
        },
        "ProductID": "productid2",
        "ProductRatePlan": "",
        "ProductRatePlanID": "",
        "State": "",
        "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
    },
}

out := &bytes.Buffer{ }
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{}
    if err != nil {
t.Fatal(err)
}
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package engine

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

cst ( defudtSubscriptionsTableFormat = "table

const ( defaultSubscriptionsTableFormat = "table

numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)
// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
  formatter.HeaderContext
  trunc bool
  l       licenseutils.LicenseDisplay
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"  "fmt"  "time"
  "github.com/docker/libtrust"  "github.com/docker/licensing/lib/errors"  "github.com/docker/licensing/lib/go-clientlib"  "github.com/docker/licensing/model"
)

  return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not // interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  keyID := license.KeyID  privateKey := license.PrivateKey  authorization, err := c.getAuthorization(ctx, license)  if err != nil {    return nil, err  }
  return authorization, nil  }
// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

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

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

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

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

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

return checkRes, nil
}

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

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

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

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

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil
}

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

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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

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package model

import "time"

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

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

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {

if l.KeyID == "" {
    return false, "empty key_id"
}

if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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1.564 string_decoder 1.1.1

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

1.569 go-runtime 1.14.2

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**1.575 rsyslog 8.32.0 1ubuntu4**

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1.580 python-certifi 2018.1.18 2

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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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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.591 grpc-gateway 1.12.1

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

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

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbса/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
Open Source Used In SMI 2021.01.0-Jan-2022  5406

/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
(RM) -rf pic
(RM) -f $(BSD_LIB)
(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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libet and libss libraries for more information.

The most recent officially distributed version can be found at
http://e2fsprogs.sourceforge.net. If you need to make a distribution,
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Gadi Oxman, August 1995

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

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

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@(#) SRCsfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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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1.596 toml v0.3.1

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1.597 tomcat-util-scan 9.0.55

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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:"nameomitempty"`
URL string `json:"url,omitempty"`

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

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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**1.619 libncurses 6.1-1ubuntu1.18.04**

**1.619.1 Available under license:**
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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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)
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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That's all there is to it!

1.623 ssh-import-id 5.7 0ubuntu1.1
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1.624 prometheus-client 1.2.0

1.624.1 Available under license:

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Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.625 go-cache 2.1.0+incompatible
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1.626 libxmu 1.1.2-2
1.626.1 Available under license:
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```plaintext
--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+[ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
```
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+ +-- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+ +libxmu (2:1.1.2-1) unstable; urgency=low
+ + * New upstream release.
+ + * Add ${misc:Depends} to libxmu-headers.
+ + * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ + * Add build-arch.indep debian/rules targets.
+ + * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+ +-- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+ +libxmu (2:1.1.1-1) unstable; urgency=low
+ + * New upstream release.
+ + * Don't require (fake)root for debian/rules clean.
+ + * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doc tools per
+ +     configure.ac.
+ + * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ +     from debian/rules.
+ + * Remove David Nusinow from Uploaders.
+ + * Bump debhelper compat level from 5 to 7.
+ +-- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+ +libxmu (2:1.1.0-3) unstable; urgency=low
+ + * Build for multiarch.
+ +-- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+ +libxmu (2:1.1.0-2) unstable; urgency=low
+ + [ Christopher James Halse Rogers ]
+ + * debian/patches/01_dont_export_private_deps.patch:
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+ +     monolith.
+ +-- Julien Cristau
+ + * New upstream release.
+ -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200
+ +libxmu (2:1.1.0-1) unstable; urgency=low
+ + * New upstream release.
+ + * Bump xutils-dev build-dep for new macros.
+ + * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ + * Pass --with-xmlto and --without-fop (we want html and txt only).
+ + * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+ + libxmu-headers.install file.
+ + * Remove the hardcoded path to the X logo in the Xmu.html file.
+ + * Kill *.xml in the doc directory, no point in shipping them.
+ + * Switch from --list-missing to --fail-missing for additional safety.
+ + + -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ + +libxmu (2:1.0.5-2) unstable; urgency=high
+ + + [ Julien Cristau ]
+ + + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+ + good reason. Thanks, Colin Watson!
+ + + * Remove myself from Uploaders
+ + + * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+ + libxmumu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+ + + [ Cyril Brulebois ]
+ + + * Add myself to Uploaders.
+ + + * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+ + for the report.
+ + + -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200
+ + +libxmu (2:1.0.5-1) unstable; urgency=low
+ + + [ Timo Aaltonen ]
+ + + * New upstream release.
+ + + * Fix 64bit support (closes: #521887)
+ + + [ Julien Cristau ]
+ + + * Bump Standards-Version to 3.8.3.
+ + + -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
+ + +libxmu (2:1.0.4-2) unstable; urgency=low
+ + + [ Julien Cristau ]
+ + + * Drop -1 debian revisions from build-deps.
+ + + * libxmumu{6,-dbg}, libxmuu-dev, libxmumu1{,-dbg} and libxmumu-dev don't need a
+ dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
+ (closes: #486418). Thanks, Martin Koeppel!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+
+ [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
+
+ libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These
+ dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their
+ permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/
+
+ [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+
+ libxmu (1:1.0.2-2) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+ XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 12 Apr 2007 13:40:07 +0200
+
+ libxmu (1:1.0.3-1) unstable; urgency=low

++ + [ Andres Salomon ]
++ + * Test for obj-(DEB_BUILD_GNU_TYPE) before creating it during build;
++ + idempotency fix.
++ + [ Drew Parsons ]
++ + * dbg package has priority extra.
++ + -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
++ + +libxmu (1:1.0.2-1) experimental; urgency=low
++ + * New upstream release
++ + * Bump debhelper compat to 5
++ + * Run dh_install with --list-missing
++ + * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
++ + * to match the rest of Debian and shut lintian up
++ + * Bump standards version to 3.7.2.0
++ + -- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
++ + +libxmu (1:1.0.1-3) unstable; urgency=low
++ + * Reorder makeshlib command in rules file so that ldconfig is run
++ + * properly. Thanks Drew Parsons and Steve Langasek.
++ + -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
++ + +libxmu (1:1.0.1-2) unstable; urgency=low
++ + * Upload to unstable
++ + -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
++ + +libxmu (1:1.0.1-1) experimental; urgency=low
++ + * First upload to Debian
++ + -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
++ + +libxmu (1:6.2.3-5) breezy; urgency=low
++ + * Also, libxmu-dev needs to depend on libxt-dev too.
++ + -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
++ + +libxmu (1:6.2.3-4) breezy; urgency=low
++
+ * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!

+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000

+ libxmu (1:6.2.3-3) breezy; urgency=low

+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.

+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 07:56:02 +0000

+ libxmu (1:6.2.3-2) breezy; urgency=low

+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.

+ -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:20:50 +1000

+ libxmu (1:6.2.3-1) breezy; urgency=low

+ * First libxmu release.

+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000

--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9

--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 9),
+ dh-autoreconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-dev (>= 1:0.99.1),
+ libxext-dev (>= 1:0.99.1),
+ pkg-config,
+ quilt,
+ automake,
+ libtool,
+ xutils-dev (>= 1:7.6+2),
+## devel-docs:
+ xmlto (>= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
+headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+.
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+.
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
 libxmuu provides a set of miscellaneous utility convenience functions for X
 + libraries to use. It is a lighter version of libXmu that does not depend
 + on libXt or libXext; for more information on libXmu, see libxmu6.
 +
 + This package contains the development headers for the library found in
 + libxmuu1. Non-developers likely have little use for this package.
 +
 + More information about X.Org can be found at:
 + <URL:http://www.X.org>
 +
 + This module can be found at
 + git://anongit.freedesktop.org/git/xorg/lib/libXmu
 +
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends: 
 + libx11-dev,
 + x11proto-core-dev,
 + ${misc:Depends},
+Description: X11 miscellaneous utility library headers
 libXmu and libXmuu are miscellaneous utility libraries for X library
 + developers to abstract some common functions. This package provides the
 + headers for both libraries (as libXmuu is a subset of libXmu), and
 + is depended upon by both. For more information, please see libxmuu-dev or
 + libxmuu-dev.
 +
 + More information about X.Org can be found at:
 + <URL:http://www.X.org>
 +
 + This module can be found at
 + git://anongit.freedesktop.org/git/xorg/lib/libXmu
 --- libxmu-1.1.2.orig/debian/copyright
 +++ libxmu-1.1.2/debian/copyright
 @@ -0,0 +1,77 @@
 +This package was downloaded from
 +http://xorg.freedesktop.org/releases/individual/lib/
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
--- a/xmu.pc.in
+++ b/xmu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
 Name: Xmu
 + Description: Xmu Library
 + Version: @PACKAGE_VERSION@
 ++Requires: xproto x11 xt
 + Requires.private: x11 xt xext
 + Cflags: -I${includedir}
 + Libs: -L${libdir} -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
--- a/xmuu.pc.in
+++ b/xmuu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
 Name: Xmuu
 + Description: Mini Xmu Library
 + Version: @PACKAGE_VERSION@
 ++Requires: xproto x11
 + Requires.private: x11
 + Cflags: -I${includedir}
 + Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
## Copyright 2004 Scott James Remnant <scott@netsplit.com>
## Copyright 2005 Daniel Stone <daniel@fooishbar.org>
## Copyright 2005 David Nusinow <dnusinow@debian.org>
+
## Uncomment this to turn on verbose mode.
##export DH_VERBOSE=1
+
+PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+dh_auto_configure -- \ 
+--disable-silent-rules \ 
+--docdir="$(prefix)/share/doc/libxmu-headers \ 
+--with-xmlto \ 
+--without-fop 
+
+override_dh_auto_install:
+dh_auto_install
+find debian/tmp/usr/share/doc/libxmu-headers -name "*.xml" -delete
+
+override_dh_install-arch:
+dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+dh_strip -Niclibxmu6 -Niclibxmuu1
+dh_strip -Nilibxmu6 --dbg-package=libxmu6 dbg
+dh_strip -Nilibxmuu1 --dbg-package=libxmuu1 dbg

--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/libXmu-(.*)\.tar\.gz

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.627 etcd-client 3.2.17+dfsg-1

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1.628 pycrypto 2.6.1

1.628.1 Available under license:

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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Last updated: 2009-02-28

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=== EOF ===

1.629 python3-mccabe 0.6.1-2
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Gocheck - A rich testing framework for Go

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

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

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

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

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

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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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1.646 felixge-httpsnoop 1.0.1

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1.648 go-restful v2.9.5+incompatible

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1.649 python-ipaddr 2.2.0-1.ph3

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

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

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

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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Version 3.1, 31 March 2009

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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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1.658 alsalib 1.1.3-5ubuntu0.6

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1.662 @npmcli/node-gyp 1.0.3

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1.663 ldap-utils 2.4.45+dfsg-1ubuntu1.10

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1.664 json-c 0.99.8-2
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1.666 net-http-persistent 3.1.0
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= net-http-persistent

* http://docs.seattlerb.org/net-http-persistent
* https://github.com/drbrain/net-http-persistent

== DESCRIPTION:
Manages persistent connections using Net::HTTP plus a speed fix for Ruby 1.8.
It's thread-safe too!

Using persistent HTTP connections can dramatically increase the speed of HTTP.
Creating a new HTTP connection for every request involves an extra TCP round-trip and causes TCP congestion avoidance negotiation to start over.

Net::HTTP supports persistent connections with some API methods but does not handle reconnection gracefully. Net::HTTP::Persistent supports reconnection and retry according to RFC 2616.

== FEATURES/PROBLEMS:

* Supports SSL
* Thread-safe
* Pure ruby
* Timeout-less speed boost for Ruby 1.8 (by Aaron Patterson)

== SYNOPSIS
The following example will make two requests to the same server. The connection is kept alive between requests:

```ruby
require 'net/http/persistent'

uri = URI 'http://example.com/awesome/web/service'

http = Net::HTTP::Persistent.new name: 'my_app_name'

# perform a GET
response = http.request uri

# create a POST
post_uri = uri + 'create'
post = Net::HTTP::Post.new post_uri.path
post.set_form_data 'some' => 'cool data'

# perform the POST, the URI is always required
```
response = http.request post_uri, post

# if you are done making http requests, or won't make requests for several
# minutes
http.shutdown

Please see the documentation on Net::HTTP::Persistent for more information,
including SSL connection verification, header handling and tunable options.

== INSTALL:

gem install net-http-persistent

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1.668 at 3.1.20 3.1ubuntu2

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execution scheduler called at.

This package was debianized by its author Thomas Koenig
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
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In August 2015 the upstream development and Debian packaging were
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This may be considered the experimental upstream source, and since there
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1.679 chai 4.3.4

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1.682 fileutils 1.1.0

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1.683 grpc-ecosystem-go-grpc-middleware

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1.685 python-colorama 0.3.7-1

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1.694 jackson-dataformat-yaml 2.9.10

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

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The Foundation sees no reason for it to expend its limited resources seeking clarifications which it believes are unnecessary. You are, of course, welcomed to expend time and energy seeking clarifications you think are necessary. I suggest you contact University's general counsel office (http://www.umich.edu/~vpgc/).

Regards, Kurt

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

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

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

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

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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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.

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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.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library
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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 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
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1.713 libio-socket-ssl-perl 2.060-3~ubuntu18.04.1

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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL-&gt;new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\n";
print &lt;$cl&gt;;

# simple server
my $srv = IO::Socket::SSL-&gt;new(
IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.

This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast. So there are lots of methods to make it do what you need if the default behavior is not adequate. Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=item * L</"Essential Information About SSL/TLS”>
=item * L</"Basic SSL Client”>
=item * L</"Basic SSL Server”>
=item * L</"Common Usage Errors”>
=item * L</"Common Problems with SSL”>
=item * L</"Using Non-Blocking Sockets”>
=item * L</"Advanced Usage”>
=item * L</"Integration Into Own Modules”>
=item * L</"Description Of Methods”>

Additional documentation can be found in
SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing web sites (https), delivering or retrieving email, and in lots of other use cases.

In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

- **Encryption**
  - This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

- **Identification**
  - This part makes sure that you talk to the right peer.
    - If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.
    - All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.
    - Thus Mallory would be able to read and modify all traffic between Alice and Bob.

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with certificates inside a PKI (Public Key Infrastructure).

These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow signed by the issuer of the card, the Certificate Agency.
To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *
Get the certificate from the peer.
If the peer does not present a certificate we cannot verify it.

=item *
Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.
In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *
Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *
Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit
this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.
This might be the case if the certificate was compromised somehow and now
somebody else might use it to claim the wrong identity.
Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.
With CRLs (Certificate Revocation List) the CA provides a list of serial numbers
for revoked certificates. The client somehow has to download the list
(which can be huge) and keep it up to date.
With OCSP (Online Certificate Status Protocol) the client can check a single
certificate directly by asking the issuer.

Revocation is the hardest part of the verification and none of today's browsers
get it fully correct. But, they are still better than most other implementations
which don't implement revocation checks or leave the hard parts to the
developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the
identity is usually only checked one way, e.g. the client wants to make sure it
talks to the right server, but the server usually does not care which client it
talks to.
But, sometimes the server wants to identify the client too and will request a
certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

    my $client = IO::Socket::SSL->new('www.example.com:443')
    or die "error=$!, ssl_error=$SSL_ERROR";

This will take the OpenSSL default CA store as the store for the trusted CA.
This usually works on UNIX systems.
If there are no certificates in the store it will try use L<Mozilla::CA> which
provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL
version, do a proper hostname check against the certificate, and use SNI (server
name indication) to send the hostname inside the SSL handshake. This is
necessary to work with servers which have different certificates behind the
same IP address.
It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```perl
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```perl
my $client = IO::Socket::SSL->new(
# where to connect
PeerHost => "www.example.com",
PeerPort => "https",

# certificate verification - VERIFY_PEER is default
SSL_verify_mode => SSL_VERIFY_PEER,

# location of CA store
# need only be given if default store should not be used
SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

# or just use default path on system:
IO::Socket::SSL::default_ca(), # either explicitly
# or implicitly by not giving SSL_ca_*

# easy hostname verification
# It will use PeerHost as default name a verification
# scheme as default, which is safe enough for most purposes.
SSL_verifcn_name => 'foo.bar',
SSL_verifcn_scheme => 'http',

# SNI support - defaults to PeerHost
SSL_hostname => 'foo.bar',
```

# send and receive over SSL connection
print $client "GET / HTTP/1.0\n\n";
print <$client>;

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

# default will try OCSP stapling and check only leaf certificate
my $client = IO::Socket::SSL->new($dst);

# better yet: require checking of full chain
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
);

# even better: make OCSP errors fatal
# (this will probably fail with lots of sites because of bad OCSP setups)
# also use common OCSP response cache
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
SSL_ocsp_cache => $ocsp_cache,
);

# disable OCSP stapling in case server has problems with it
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
    warn "OCSP verification failed: $errors"
    close($client);
}

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:
# simple server
my $server = IO::Socket::SSL->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,

# which certificate to offer
# with SNI support there can be different certificates per hostname
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',
) or die "failed to listen: $!";

# accept client
my $client = $server->accept or die "failed to accept or ssl handshake: $!,$SSL_ERROR";

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.
We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

# inet server
my $server = IO::Socket::INET->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
SSL_server => 1,
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";

Like with normal sockets, neither forking nor threading servers scale well.
It is recommended to use non-blocking sockets instead, see
=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places). Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided
by L<IO::Socket::SSL>.
If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a syscall to read one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a sysread for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further sysreads will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block) you must check if there are still data in the current SSL frame by calling C<pending> and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to sysread at least 16kByte all the time. 16kByte is the maximum size of an SSL frame and because sysread returns data from only a single SSL frame you can guarantee that there are no pending data.

See also L</"Using Non-Blocking Sockets">.

=item *

Expecting exactly the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.
Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.
But, there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.
Since the SSL state is stored in user space it will be duplicated by a `fork` but it will be lost when doing `exec`. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=head1 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug. Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of `IO::Socket::SSL` and `Net::SSLeay`, which can both be set with `C<$IO::Socket::SSL::DEBUG>`.

The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from `IO::Socket::SSL` and ciphers from `Net::SSLeay`.

=item *

2 - Print also information about call flow from `IO::Socket::SSL` and progress information from `Net::SSLeay`.

=item *

3 - Print also some data dumps from `IO::Socket::SSL` and from `Net::SSLeay`.

=back

Also, `C<analyze-ssl.pl>` from the ssl-tools repository at `L<https://github.com/noxxi/p5-ssl-tools>` might be a helpful tool when debugging SSL problems, as do the `C<openssl>` command line tool and a check with a different SSL implementation (e.g. a web browser).
The following problems are not uncommon:

-over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.
Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<<SSL_ca*>> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

Validation of self-signed certificate fails even if it is given with C<<SSL_ca*>> argument.

The C<<SSL_ca*>> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read. In these cases C<$!> is set to EAGAIN like expected, and additionally C<<SSL_ERROR>> is set to either SSL_WANT_READ or SSL_WANT_WRITE. Thus if you get EWOULDBLOCK on a SSL socket you must check C<<SSL_ERROR>> for SSL_WANT_* and adapt your event mask accordingly.

Using readline on non-blocking sockets does not make much sense and I would advise against using it.
And, while the behavior is not documented for other \texttt{L\textbackslash IO::Socket} classes, it will try to emulate the behavior seen there, e.g. to return the received data instead of blocking, even if the line is not complete. If an unrecoverable error occurs it will return nothing, even if it already received some data.

Also, I would advise against using \texttt{C\textless accept\textgreater} with a non-blocking SSL object because it might block and this is not what most would expect. The reason for this is that \texttt{C\textless accept\textgreater} on a non-blocking TCP socket (e.g. \texttt{L\textbackslash IO::Socket::IP}, \texttt{L\textbackslash IO::Socket::INET}..) results in a new TCP socket which does not inherit the non-blocking behavior of the master socket. And thus, the initial SSL handshake on the new socket inside \texttt{C\textless IO::Socket::SSL\textless::accept\textgreater} will be done in a blocking way. To work around this you are safer by doing a TCP accept and later upgrade the TCP socket in a non-blocking way with \texttt{C\textless start\_SSL\textgreater} and \texttt{C\textless accept\_SSL\textgreater}.

```perl
my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
    # with SSL a call for reading n bytes does not result in reading of n
    # bytes from the socket, but instead it must read at least one full SSL
    # frame. If the socket has no new bytes, but there are unprocessed data
    # from the SSL frame can\_read will block!
    
    # wait for data on socket
    $sel->can\_read();

    # new data on socket or eof
    READ:
    # this does not read only 1 byte from socket, but reads the complete SSL
    # frame and then just returns one byte. On subsequent calls it than
    # returns more byte of the same SSL frame until it needs to read the
    # next frame.
    my $n = sysread( $cl,my $buf,1);
    if ( ! defined $n ) {
        die $! if not ${EWOULDBLOCK};
        next if $SSL\_ERROR == SSL\_ WANT\_READ;
        if ( $SSL\_ERROR == SSL\_ WANT\_WRITE ) {
            # need to write data on renegotiation
            $sel->can\_write;
            next;
        }
        die "something went wrong: $SSL\_ERROR";
    } elsif ( ! $n ) {
        last; # eof
    } else {
        # read next bytes
        # we might have still data within the current SSL frame
        # thus first process these data instead of waiting on the underlying
```

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Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available.
Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering `B<pending()>` need to be used. Alternatively the buffering can be avoided by using `B<sysread>` with the maximum size of an SSL frame. See L</"Common Usage Errors"> for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in L<IO::Socket::SSL>.
With a supported version, SNI is used automatically on the client side, if it can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms in the underlying IO::Socket:: classes and thus should never be set both or at least not to different values).
On unsupported OpenSSL versions it will silently not use SNI.
The hostname can also be given explicitly given with C<SSL_hostname>, but in this case it will throw in error, if SNI is not supported.
To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together with L<Net::SSLeay> version >= 1.50.
To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>. If server side SNI is supported, you might specify different certificates per host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even need a way to downgrade the socket again back to plain.
The common way to do this would be to create a normal socket and use C<start_SSL> to upgrade and stop_SSL to downgrade:

```
my $sock = IO::Socket::INET->new(...) or die $!
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>. While this base class can be replaced with L<IO::Socket::SSL>, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and C<stop_SSL> to talk plain again:

```
my $sock = IO::Socket::SSL->new(
  PeerAddr => ...
  SSL_startHandshake => 0,
  %sslargs
) or die $!
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could be integrated in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll. Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>. This should be set to the hostname verification scheme required by the module or
protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module. The choice of the super class depends on the installed modules:

=over 4
=item *
If L<IO::Socket::IP> with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *
If L<IO::Socket::INET6> is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *
Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module. With L<IO::Socket::INET> you only get IPv4 support.
=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.
To avoid these problems you can enforce IPv4 for a specific socket by using the C<Domain> or C<Family> option with the value AF_INET as described in L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4 only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to provide additional arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.

=over 4
=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set. If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error. Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B$new(...)

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below. If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server. If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to ".

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.

=item SSL_keepSocketOnError
If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C<;> on DOS, Windows, Netware, C,<> on VMS and C<?,> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSL::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will be added to the CA store before path and file and thus take precedence.

If both SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<undef> or SSL_ca to an empty list. (unfortunately C"" is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate as C<'algo$hex_fingerprint'>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the hexadecimal representation of the binary fingerprint.

If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax C<'algo$pub$hex_fingerprint'> instead.

To get the fingerprint of an established connection you can use C<get_fingerprint>.

You can specify a list of fingerprints in case you have several acceptable
If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which should be verified by the client. Same is true for client certificates, which should be verified by the server.

The certificate can be given as a file with SSL_cert_file or as an internal representation of an X509* object (like you get from L<Net::SSL::eay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with SSL_cert.

If given as a file it will automatically detect the format.

Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with SSL_key_file or as an internal representation of an EVP_PKEY* object with SSL_key (like you get from L<Net::SSL::eay> or L<IO::Socket::SSL::Utils::PEM_xxx2key>).

If a key was already given within the PKCS#12 file specified by SSL_cert_file it will ignore any SSL_key or SSL_key_file.

If no SSL_key or SSL_key_file was given it will try to use the PEM file given with SSL_cert_file again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with C<<hostname => cert_file>>.

In case certs and keys are needed but not given it might fall back to built-in defaults, see "Defaults for Cert, Key and CA".

Examples:

SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

SSL_cert_file => {
    "foo.example.org" => 'foo-cert.pem',
    "bar.example.org" => 'bar-cert.pem',
    # used when nothing matches or client does not support SNI

SSL_key_file => {
    "foo.example.org" => 'foo-key.pem',
    "bar.example.org" => 'bar-key.pem',
    # used when nothing matches or client does not support SNI
    "" => 'default-key.pem',
}

=item SSL_password

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.
For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data.
'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1' or 'TLSv1_2' restrict handshake and protocol to the specified version.
All values are case-insensitive. Instead of 'TLSv1_1' and 'TLSv1_2' one can also use 'TLSv11' and 'TLSv12'. Support for 'TLSv1_1' and 'TLSv1_2' requires recent versions of Net::SSLeay and openssl.

Independent from the handshake format you can limit to set of accepted SSL versions by adding !version separated by ':'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.
You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older
clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'. Look into the OpenSSL documentation (L<http://www.openssl.org/docs/apps/ciphers.html#CIPHER_STRINGS>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.

To use the less secure OpenSSL builtin default (whatever this is) set SSL_cipher_list to ".

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

If you want Diffie-Hellman key exchange you need to supply a suitable file here or use the SSL_dh parameter. See dhparam command in openssl for more information.

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve.

If neither C<SSL_dh_file> or C<SSL_dh> is set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.
=item SSL_ecdh_curve

If you want Elliptic Curve Diffie-Hellmann key exchange you need to supply the
OID or NID of a suitable curve (like 'prime256v1') here.
To create a server which provides forward secrecy you need to either give the DH
parameters or (better, because faster) the ECDH curve.

This parameter defaults to 'prime256v1' (builtin of OpenSSL) to offer ECDH key
exchange by default. If you don't want this explicitly set it to undef.

You can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.
You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT
(fail verification if no peer certificate exists; ignored for clients),
SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server  (e.g. no check for client
certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along
with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes and owner attributes,
and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to
PEM form with Net::SSLeay::PEM_get_string_X509()).
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

The function should return 1 or 0, depending on whether it thinks the certificate is valid or invalid. The default is to let OpenSSL do all of the busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

The scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer.

See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. THIS WILL CHANGE, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate !!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling B<verify_hostname> yourself.

This option is used to specify the behavior when checking wildcards certificates for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of L<IO::Socket::SSL::PublicSuffix>, you can create another object with from_string or from_file of this module.

To disable verification of public suffix set this option to C"". 
=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme is set and no SSL_verifycn_name is given it will try to use SSL_hostname or PeerHost and PeerAddr settings and fail if no name can be determined. If SSL_verifycn_scheme is not set it will use a default scheme and warn if it cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly with C<IO::Socket::SSL->new>, if an IO::Socket::INET object is upgraded with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your SSL_ca_path, or use the file specified by SSL_crl_file. See the Net::SSLeay documentation for more details. Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default is to send a request for OCSP stapling to the server and if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling. This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do. Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc. Certificate revocations inside a verified response are considered hard errors in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>. If the peer did not provide a stapled OCSP response the function will be called with C<$resp=undef>. Because the OCSP response handle is no longer valid after leaving this function it should not by copied or freed. If access to the response is necessary after leaving this function it can be serialized with C<Net::SSLeay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.
You can either create a new cache with
C<IO::Socket::SSL::OCSP_Cache->new([size])> or implement your own cache,
which needs to have methods C<put($key,%entry)> and C<get($key)> (returning
C<%entry>) where entry is the hash representation of the OCSP response with
fields like C<nextUpdate>. The default implementation of the cache will consider
responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of
IO::Socket::SSL, then you can reuse the SSL context of that instance by passing
it as the value for the SSL_reuse_ctx parameter. You may also create a
new instance of the IO::Socket::SSL::SSL_Context class, using any context
options that you desire without specifying connection options, and pass that
here instead.

If you use this option, all other context-related options that you pass
in the same call to new() will be ignored unless the context supplied was
invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a
global SSL context will not be implicitly used unless you use the
set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it
got created and the default setup was done.
The callback will be called with the CTX object from Net::SSLeay as the single
argument.

Example for limiting the server session cache size:

    SSL_create_ctx_callback => sub {
        my $ctx = shift;
        Net::SSLeay::CTX_sess_set_cache_size($ctx, 128);
    }

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation
time is an issue, you can turn on client-side session caching with this option
by specifying a positive cache size. For successive connections, pass the
SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make
use of the cached sessions. The session cache size refers to the number of
unique host/port pairs that can be stored at one time; the oldest sessions in
the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients,
e.g. it does not affect SSL objects with SSL_server set.
=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new( cachesize ) >>.

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache. Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of having it be closed forcibly.
The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL negotiation failed and the full text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. ['spdy/2','http1.1'].
On the client side it specifies the protocols offered by the client for NPN as an array ref.
See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.
If you use this option with an unsupported Net::SSLeay/OpenSSL it will
throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].
On the client side it specifies the protocols advertised by the client for ALPN as an array ref.
See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay 1.56+ and openssl-1.0.2+. More details about the extension are in RFC7301. To check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,$[key_name]) >> where C<$data> is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<$key_name>. In this case it should return C<($current_key,$current_key_name)> where C<$current_key> is the current key (32 byte random data) and C<$current_key_name> the name associated with this key (exactly 16 byte). This C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name> as found in the ticket. It should return C<($key,$current_key_name)> where C<$key> is the key associated with the given C<$key_name> and C<$current_key_name> the name associated with the currently active key.
If C<$current_key_name> is different from the given C<$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function should return nothing (empty list).
This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

Example:

Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16","oldsecret");
my $newkey_name = pack("a16","newsecret");

my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
        next if $name ne $mykeys->[i][0];
        return ($mykeys->[i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
},@keys ];

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details.
If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C\texttt{start\_SSL} later.

\begin{item}{B}\texttt{connect(...)}\end{item}

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C\texttt{new} to create a connect SSL socket or C\texttt{start\_SSL} to upgrade an established TCP socket to SSL.

\begin{item}{B}\texttt{close(...)}\end{item}

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C\texttt{SSL\_fast\_shutdown} need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C\texttt{close} or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C\texttt{close} with C\texttt{SSL\_no\_shutdown} set to true should be done in the parent process.

For more details and other arguments see C\texttt{stop\_SSL} which gets called from C\texttt{close} to shutdown the SSL state of the socket.

\begin{item}{back}\end{item}

\begin{item}{B}\texttt{sysread( BUF, LEN, [ OFFSET ] )}\end{item}

This function behaves from the outside the same as B\texttt{sysread} in other L\texttt{IO::Socket} objects, e.g. it returns at most LEN bytes of data. But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls.

This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

\texttt{sysread} will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying
socket and return the decrypted data. It will not return data spanning several
SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL
handshake.

To understand these behaviors is essential, if you write applications which use
event loops and/or non-blocking sockets. Please read the specific sections in
this documentation.

=item B<syswrite( BUF, [ LEN, [ OFFSET ]] )>

This functions behaves from the outside the same as B<syswrite> in other
L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but
there is no guarantee, that all LEN bytes are written. It will return the number
of bytes written.
Because it basically just calls SSL_write from OpenSSL syswrite will write at
most a single SSL frame. This means, that no more than 16.384 bytes, which is
the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Pease read the specific section in this documentation.

=item B<peek( BUF, LEN, [ OFFSET ])>

This function has exactly the same syntax as B<sysread>, and performs nearly the
same task but will not advance the read position so that successive calls to
peek() with the same arguments will return the same results. This function
requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the
underlying socket object. This function is essential if you work with event
loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form
C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but
instead the fingerprint of the pubkey inside the certificate as
C<algo$pub$digest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using
the algorithm \texttt{C<algo>}, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If \texttt{C<pubkey>} is true it will not return the fingerprint of the certificate but
instead the fingerprint of the pubkey inside the certificate.

\item \texttt{B<get_cipher()><}

Returns the string form of the cipher that the IO::Socket::SSL object is using.

\item \texttt{B<get_sslversion()><}

Returns the string representation of the SSL version of an established
connection.

\item \texttt{B<get_sslversion_int()><}

Returns the integer representation of the SSL version of an established
connection.

\item \texttt{B<get_session_reused()><}

This returns true if the session got reused and false otherwise. Note that with
a reused session no certificates are send within the handshake and no ciphers
are offered and thus functions which rely on this might not work.

\item \texttt{B<dump_peer_certificate()><}

Returns a parsable string with select fields from the peer SSL certificate.
This method directly returns the result of the \texttt{dump_peer_certificate()} method of
Net::SSLeay.

\item \texttt{B<peer_certificate($field;[$refresh])><}

If a peer certificate exists, this function can retrieve values from it.
If no field is given the internal representation of certificate from Net::SSLeay
is returned.
If refresh is true it will not used a cached version, but check again in case
the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

\item over 8

\item authority (alias issuer)

The certificate authority which signed the certificate.

\item owner (alias subject)
The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version >=1.33

Alternative names for the subject, usually different names for the same server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58.

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr.
See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only
in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if their are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known. Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.
No verification will be done. Actually is does not make any sense to call verify_hostname in this case.

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

 getItem none

Determine if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

getItem check_cn: 0|'always'|'when_only'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed.

For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

getItem wildcards_in_alt: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

getItem wildcards_in_cn: 0|'full_label'|'anywhere'

Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

getItem callback: \&coderef

If you give a subroutine for verification it will be called with the arguments ($hostname,$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').
All other arguments for the verification scheme will be ignored in this case.

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1', 'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.
To check support, use C<< IO::Socket::SSL->can_alpn() >>.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the string C<<SSL wants a read first!>> or C<<SSL wants a write first!>> meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable $SSL_ERROR against the exported symbols SSL_WANT_READ and SSL_WANT_WRITE.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying IO::Handle is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL($socket, ... ) >>

This will convert a glob reference or a socket that you provide to an IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e.
IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.
Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.

They will return undef until the handshake succeeded or an error got thrown. As long as the function returns undef and $! is set to EWOULDBLOCK one could retry the call after the socket got readable (SSL_WANT_READ) or writeable (SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain certificates will be checked.
Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< $ssl->ocsp_resolver >> and provides the following methods:

=over 8

=item hard_error

This returns the hard error when checking the OCSP response. Hard errors are certificate revocations. With the C<< SSL_ocsp_mode >> of SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return C"".

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of C<application/ocsp-request> or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with C<add_response> you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.

=item add_response($uri,$response)

This method takes the HTTP body of the response which got received when sending the OCSP request to C<$uri>. If no response was received or an error occurred one should either retry or consider C<$response> as empty which will trigger a soft error.
The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C+%args+ will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_SSL> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally the given $fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C+%sslargs+. If C<$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

=item B<IO::Socket::SSL::default_ca([ path|dir|SSL_ca_file => ..., SSL_ca_path => ... ])>

Determines or sets the default CA path. If existing path or dir or a hash is given it will set the default CA path to this value and never try to detect it automatically. If C<undef> is given it will forget any stored defaults and continue with detection of system defaults. If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM.
If no usable system default can be found it will try to load and use L<Mozilla::CA> and if not available give up detection. The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context (unless specifically overridden in a call to new()).

It accepts one argument, which should be either an IO::Socket::SSL object or an IO::Socket::SSL::SSL_Context object.

See the SSL_reuse_ctx option of new() for more details.

Note that this sets the default context globally, so use with caution (esp. in mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You may use this to make IO::Socket::SSL automatically re-use a given session cache (unless specifically overridden in a call to new()).

It accepts one argument, which should be an IO::Socket::SSL::Session_Cache object or similar (e.g. something which implements get_session, add_session and maybe del_session like IO::Socket::SSL::Session_Cache does).

See the SSL_session_cache option of new() for more details.

Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme

=item name - SSL_verifycn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for client mode.
Similar to \texttt{set_defaults}, but only sets the defaults for server mode.

Sometimes one has to use code which uses unwanted or invalid arguments for SSL, typically disabling SSL verification or setting wrong ciphers or SSL versions. With this hack it is possible to override these settings and restore sanity. Example:

\begin{verbatim}
IO::Socket::SSL::set_args_filter_hack( sub { my ($is_server,$args) = @_; if ( ! $is_server ) { # client settings - enable verification with default CA # and fallback hostname verification etc delete @{$args}{qw( SSL_verify_mode SSL_ca_file SSL_ca_path SSL_verifycn_scheme SSL_version )}; # and add some fingerprints for known certs which are signed by # unknown CAs or are self-signed $args->{SSL_fingerprint} = ... } });
\end{verbatim}

With the short setting \texttt{set_args_filter_hack('use_defaults')} it will prefer the default settings in all cases. These default settings can be modified with \texttt{set_defaults}, \texttt{set_client_defaults} and \texttt{set_server_defaults}.

The following methods are unsupported (not to mention futile!) and \texttt{IO::Socket::SSL} will emit a large \texttt{CROAK}() if you are silly enough to use them:

\begin{verbatim}
=over 4
=item truncate
=item stat
=item ungetc
=item setbuf
\end{verbatim}
Note that send() and recv() cannot be reliably trapped by a tied filehandle (such as that used by IO::Socket::SSL) and so may send unencrypted data over the socket. Object-oriented calls to these functions will fail, telling you to use the print/printf/syswrite and read/sysread families instead.

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=item context_init()
use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()
use IO::Socket::SSL->start_SSL() instead

=item kill_socket()
use close() instead

=item get_peer_certificate()
use the peer_certificate() function instead. Used to return X509_Certificate with methods subject_name and issuer_name. Now simply returns $self which has these methods (although deprecated).

=item issuer_name()
use peer_certificate('issuer') instead

=item subject_name()
use peer_certificate('subject') instead
=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")
Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
  - 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
buidl_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IO-Socket-SSL
no_index:
  directory:
    - t
    - inc
requires:
  Mozilla::CA: '0'
  Net::SSLeay: '1.46'
  Scalar::Util: '0'
resources:
  bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
  homepage: https://github.com/noxxi/p5-io-socket-ssl
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repository: https://github.com/noxxi/p5-io-socket-ssl
version: '2.060'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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1.714 psych 3.0.2
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- `regcomp.c`
regenc.[ch]:
regerror.c:
regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_jp.c
enc/euc_kr.c
enc/euc_tw.c
enc/gb18030.c
enc/gb2312.c
enc/gbk.c
enc/iso_8859_1.c
enc/iso_8859_10.c
enc/iso_8859_11.c
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enc/iso_8859_6.c
enc/iso_8859_7.c
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enc/utf_16be.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

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

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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $

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strftime.c:
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missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.[ch]:
ext/sdbm_sdbm.c:
ext/sdbm/sdbm.h:

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missing/setproctitle.c

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missing/strlcat.c
missing/strlcpy.c

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L. Peter Deutsch
ghost@aladdin.com

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(Arranged for libc by Todd C. Miller)
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ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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ext/socket/getnameinfo.c:

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5.
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  * shell/*
  * thwait.rb
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  * missing/lgamma_r.c
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1.729 yaml 1.1.0

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io.helidon.config.yaml.internal.YamlConfigParser

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* /opt/ cola/ permits/1212202902_1633724936.34/0/helidon-config-yaml-1-1-0-sources-jar/META-
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* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/package-info.java
* /opt/cola/permits/1212202902_1633724936.34/0/helidon-config-yaml-1-1-0-sources-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java
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1.730 go-colorable 0.1.6
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1.731 pyasn1-modules 0.2.8
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1.732 golang-org-x-crypto v0.0.0-20200128174031-69ecbb4d6d5d

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1.733 wsgiref 0.1.2

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Metadata-Version: 1.0
Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
Author-email: web-sig@python.org
License: PSF or ZPL

Description: This is a standalone release of the `wsgiref` library to be included in Python 2.5. For the standalone version's documentation, see:

   HTML
   http://peak.telecommunity.com/wsgiref_docs/

   PDF
   http://peak.telecommunity.com/wsgiref.pdf

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1.734 kubernetes-api 0.0.0-20190813020757-36bff7324fb7

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1.735 mchange-commons-java 0.2.15

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Version 2.1, February 1999

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1.738 async 3.2.2

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lib/kdb/kdb_log.c
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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

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1.760 kubernetes-klog 0.4.0

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.765 x-net 0.0.0-20201110031124-69a78807bb2b

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1.766 envtpl 0.6.0

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Julian Seward, jseward@bzip.org
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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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1.797 python-jsonschema 2.6.0-2

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1.798 json-cpp 1.9.5

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1.802 cyphar-filepath-securejoin 0.2.2

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

{% method %}
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

{% sample lang="yaml" %}
```bash
```
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `:<namespace>/`.

```
- `:<pod-namespace>/<pod-name>::<path>`
```

### Namespaces

```
```bash
endmethod
```

---

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

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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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1.814 k8s-io-api v0.17.2

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1.818 pierrec-lz4 2.5.3-0.20200429092203-e876bbd321b3+incompatible

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

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

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

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

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2.7 2.6 2010 PSF yes

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the version number 2.1.]

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Julian Seward, jseward@acm.org
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The header `<boost/mp11 mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11 mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11 mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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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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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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@heading TERMS AND CONDITIONS

@enumerate 0
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System Libraries, or general-purpose tools or generally available free
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@enumerate a
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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

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

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

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

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

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

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// Original can be found at:
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// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])  
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    "openssl/ssl/d1_lib.c",
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'./config/archs/BSD-x86/asm/crypto/des/des-586.s',
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'./config/archs/BSD-x86/asm/crypto/md5/md5-586.s',
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'./config/archs/BSD-x86/asm/crypto/x86cpuid.s',
'./config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
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openssl_defines_BSD-x86: [
'NDEBUG',
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'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_BN_ASM_PART_WORDS',
'OPENSSL_IA32_SSE2',
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'OPENSSL_BN_ASM_GF2m',
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'SHA256_ASM',
'SHA512_ASM',
'RC4_ASM',
'MD5_ASM',
'RMD160_ASM',
'AESNI_ASM',
'VPAES_ASM',
'WHIRLPOOL_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'POLY1305_ASM',
],
openssl_cflags_BSD-x86: [
'-Wa,--noexecstack',
'-Wall -O3 -fomit-frame-pointer',
'-pthread',
'-Wall -O3 -fomit-frame-pointer',
],
openssl_ex_libs_BSD-x86: [
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# spdx-license-ids


A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false

deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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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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    'OPENSSL_PIC', 
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    '-pthread', 
    '-Wall -O3', 
  ], 
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Minizlib was created by Isaac Z. Schlueter. It is a derivative work of the Node.js project.

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DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
Version 2, December 2004

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],
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'OPENSSL_PIC',
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'SHA256_ASM',
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'GHASH_ASM',
'ECP_NISTZ256_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86': [
'--noexecstack',
'-Wall -O3 -fomit-frame-pointer',
'-pthread',
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],
'openssl_ex_libs_BSD-x86': [ 
'-pthread',
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'include_dirs': [
'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86)'],
'cflags': ['<@(openssl_cflags_BSD-x86)'],
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'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}

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'openssl/crypto/x509v3/v3_utl.c',
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]

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'./config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
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],
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' -pthread',  
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  './include',
  './crypto',
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],
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'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
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'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)']
}

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

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  'OPENSSL_CPUID_OBJ',
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  'MD5_ASM',
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  'AESNI_ASM',
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Include directories:
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  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
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  './crypto',
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}
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validate-npm-package-license
=================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  });
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```
... except if they contain `LicenseRef`:
```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```

assert.deepEqual(
  valid('MIT OR LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package
and point users there:
```
```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  ```javascript
  var warningAboutLicenseRef = {
    validForOldPackages: false,
    validForNewPackages: false,
    spdx: true,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
    ]
  }
  ```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

### 1.829 kubernetes-api 0.20.1

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)

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fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```

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

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package github

import "fmt"

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

client *Client

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",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() (*[]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    req.Header.Set("Accept", mediaTypeLicensesPreview)

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

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.830 libjpeg8-empty 8c-2ubuntu8
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1.831 python3-netifaces 0.10.4-0.1build4

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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
License: MIT License
Description: 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.

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

    tar xvzf 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: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::

    { 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.

    >>> 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
>>> 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

```python
>>> addrs[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:
>>> 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:

>>> 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.

3. This is great! What platforms does it work on?

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.

4. What license is this under?
----------------------------------

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5. Why the jump to 0.10.0?
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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.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Then if you enter

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['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
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you'll see the list of interface identifiers for your machine.

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{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'}]}
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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:

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1.832 stateless4j 2.5.0

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* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-
1.833 typedarray-to-buffer 3.1.5

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1.834 go-systemd 0.0.0-20190321100706-95778dfbb74e

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1.838 qemu-block-extra 2.11+dfsg-1ubuntu7.38

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Then maintained as part of the team by:

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The upstream source was downloaded from:

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All the binary blobs without sources contained in the pc-bios/ directory (*.dtb, *.bin, *rom, openbios-*, palcode-clipper) in the original upstream git repository have been removed starting from Debian package version 0.6.0.dfsg.1-1. Those roms which are free can be found in split packages of their own, represented accordingly in the dependency relationships.

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1.840 ruby-minitest 5.10.3-1
1.840.1 Available under license:

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

# more details.

Found in path(s):
* /opt/cola/permits/1152280212_1618211306.23/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-
5.10.3/lib/minitest/benchmark.rb
No license file was found, but licenses were detected in source scan.

= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

   I MUST say that minitest is *very* readable / understandable
   compared to the 'other two' options we looked at. Nicely done and
   thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec
expectations.

minitest/benchmark is an awesome way to assert the performance of your
algorithms in a repeatable manner. Now you can assert that your newb
coworker doesn't replace your linear algorithm with an exponential
one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub)
object framework.

minitest/pride shows pride in testing and adds coloring to your test
output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language
implementors that need a minimal set of methods to bootstrap a working
test suite. For example, there is no magic involved for test-case
discovery.

"Again, I can't praise enough the idea of a testing/specing
framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like:
classes, modules, inheritance, methods. This means you only have to
learn ruby to use minitest and all of your regular OO practices like
extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
def i_can_has_cheezburger?
  "OHAI!"
end

def will_it_blend?
  "YES!"
end
end
== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end

== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"
    end
  end

  describe "when asked about blending possibilities" do
    it "won't say no" do
      @meme.will_it_blend?.wont_match /^no/i
    end
  end
end

For matchers support check out:
* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:
"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value
      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

=== Stubs
Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do  # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

### Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with ``--help``:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
```
minitest options:
- **-h, --help**  Display this help.
- **-s, --seed SEED**  Sets random seed. Also via env. Eg: SEED=n rake
- **-v, --verbose**  Verbose. Show progress processing files.
- **-n, --name PATTERN**  Filter run on /regexp/ or string.
- **-e, --exclude PATTERN**  Exclude /regexp/ or string from run.

Known extensions: pride, autotest
- **-p, --pride**  Pride. Show your testing pride!
- **-a, --autotest**  Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```
# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end
```

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via `<tt><</tt>`.

+AAbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.
start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
  def work
    end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do


outputs a failure:

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x0000000000000000> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
Expectations are put on Object (one level down) so the Worker
(SimpleDelegate) hits +method_missing+ and delegates down to the
+Object.new+ instance. That object doesn't respond to work so the test
fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end
```

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

---
Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so, in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
-"Expected /\w+/ to not match "blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"blah blah blah\"."
```

To check your current encoding, run:

```ruby
ruby -e 'puts Encoding.default_external'
```
If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8'. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputting UTF-8, use the same setting when running rake in Minitest.

```ruby
== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_long
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
   Expected: "--- expected
+++ actual
@@ -1 +1 @@
-"hahahahahahahahahahahahahahahahahahahaha"
+"blahblahblahblahblahblahblahblahblahblah"
"
   Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
     Actual:
"blahblahblahblahblahblahblahblahblah"
"

5) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
   Expected: "No visible difference in the Hash#inspect output.
You should look at the implementation of #== on Hash or its members.
{1=>#<Object:0xXXXXXX>}
"
   Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
     Actual: {1=>#<Object:0x0000003ba0448>}
"
```

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU difutils from http://gnuwin32.sourceforge.net/packages/difutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:

```
diff (GNU difutils) 2.8.1
```
If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g. `<tt>page.must_have_content("Title")</tt>`).
color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter. E.g. `<tt>it "requires JS driver", js: true do</tt>` & `<tt>ruby test.rb --tag js</tt>` runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
minitest-around :: Around block for minitest. An alternative to setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to be used during development.
minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.
minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.
minitest-bisect :: Helps you isolate and debug random test failures.
minitest-blink1_reporter :: Display test results with a Blink1.
minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.
minitest-capybara :: Capybara matchers support for minitest unit and spec.
minitest-chef-handler :: Run Minitest suites as Chef report handlers
minitest-ci :: CI reporter plugin for Minitest.
minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.
minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.
minitest-display :: Patches Minitest to allow for an easily configurable output.
minitest-documentation :: Minimal documentation format inspired by rspec's.
minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.
minitest-emoji :: Print out emoji for your test passes, fails, and skips.
minitest-english :: Semantically symmetric aliases for assertions and expectations.
minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.
minitest-fail-fast :: Reimplements RSpec's "fail fast" feature
minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.
minitestfilesystem :: Adds assertion and expectation to help testing filesystem contents.
minitest-firemock :: Makes your Minitest mocks more resilient.
minitest-focus :: Focus on one test at a time.
minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.
minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.
minitest-growl :: Test notifier for minitest via growl.
minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
minitest-hooks :: Around and before_all/after_all/around_all hooks
minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup
with your minitest process, allowing your test
run to send its results directly to a handler.

minitest-sequel :: Minitest assertions to speed-up development and
testing of Ruby Sequel database setups.

minitest-shared_description :: Support for shared specs and shared spec
subclasses

minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for
Minitest.

minitest-shouldify :: Adding all manner of shoulds to Minitest (bad
idea)

minitest-snail :: Print a list of tests that take too long

minitest-spec-context :: Provides rspec-ish context method to
Minitest::Spec.

minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g.
expect(sequences).to_include :celery_man).

minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.

minitest-spec-rails :: Drop in Minitest::Spec superclass for
ActiveSupport::TestCase.

minitest-sprint :: Runs (Get it? It's fast!) your tests and makes
it easier to rerun individual failures.

minitest-stately :: Find leaking state between tests

minitest-stub_any_instance :: Stub any instance of a method on the given class
for the duration of a block.

minitest-stub-const :: Stub constants for the duration of a block.

minitest-tags :: Add tags for minitest.

minitest-unordered :: Adds a new assertion to minitest for checking the
contents of a collection, ignoring element order.

minitest-vcr :: Automatic cassette management with Minitest::Spec
and VCR.

minitest_owrapper :: Get tests results as a TestResult object.

minitest_should :: Shoulda style syntax for minitest test::unit.

minitest_tu_shim :: Bridges between test/unit and minitest.

mongoid-minitest :: Minitest matchers for Mongoid.

pry-rescue :: A pry plugin w/ minitest support. See
pry-rescue/minitest.rb.

rspec2minitest :: Easily translate any RSpec matchers to Minitest
assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

gem "minitest"      # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1152280212_1618211306.23/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/README.rdoc

1.841 go-bigtable 1.1.0
1.841.1 Available under license :

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
package cloud

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

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    })
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {
        // Automatically generated.
        return nil
    }
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
        // BSD license, which is compatible, is embedded in the file.
        return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }
    return err
}
// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}

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

1.842 dom 1.0
1.842.1 Available under license:
No license file was found, but licenses were detected in source scan.

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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
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jar/org/apache/xerces/dom3/as/DOMASException.java
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jar/org/apache/xerces/dom3/as/DOMASBuilder.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
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jar/org/apache/xerces/parsers/AbstractSAXParser.java
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jar/org/apache/wml/WMLAccessElement.java
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jar/org/apache/xerces/wml/WMLElement.java
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jar/org/apache/xerces/xx/traversers/XSAbstractIDConstraintTraverser.java
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jar/org/apache/xerces/xx/xx/DefaultSimpleType.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xincl/.XRInclude11TextReader.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xincl/xerces/IncludeMessageFormatter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xincl/xerces/IncludeMessageFormatter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/dv/dateTime/XSDateTime.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/dv/dateTime/XSDateTime.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/dv/dateTime/XSDateTime.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/RevalidationHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/PrimeNumberSequenceGenerator.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/HexBinaryDV.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

Found in path(s):
*/opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>

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method.
* @param mode  The <code>mode</code> argument is either
*   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
*   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in synchronous
*   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in asynchronous
*   mode.
* @param schemaType  An absolute URI representing the type of the schema
*   language used during the load of a <code>Document</code> using the
*   newly created <code>LSParser</code>. Note that no lexical checking
*   is done on the absolute URI. In order to create a
*   <code>LSParser</code> for any kind of schema types (i.e. the
*   <code>LSParser</code> will be free to use any schema found), use the value
*   <code>null</code>.
* <p><b>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>]
*   , applications must use the value
*   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
*   applications must use the value
*   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
*   are outside the scope of the W3C and therefore should recommend an
*   absolute URI in order to use this method.
* @return  The newly created <code>LSParser</code> object. This
*   <code>LSParser</code> is either synchronous or asynchronous
*   depending on the value of the <code>mode</code> argument.
* <p><b>Note:</b> By default, the newly created <code>LSParser</code>
*   does not contain a <code.DOMErrorHandler</code>, i.e. the value of
*   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-200303069/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations
*   may provide a default error handler at creation time. In that case,
*   the initial value of the <code>error-handler</code> configuration
*   parameter on the new created <code>LSParser</code> contains a
*   reference to the default error handler.
* @exception DOMException
*   NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
1.843 apache 2.4.29-1ubuntu4.19

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Michael Campanella (campanella@stevms.enet.dec.com)
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1.851 kubelet 1.21.0-00

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1.854 netifaces 0.10.4

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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
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Description: 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 xvzf 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:

```python
>>> import netifaces

Then if you enter

```python
>>> 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

```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'}]}
```

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:

```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
>>> 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

```python
>>> addrs[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:
>>> 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:

>>> 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.

3. This is great! What platforms does it work on?
---------------------------------------------

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.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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Then if you enter

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    ['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

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{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:

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```
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```

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5. Why the jump to 0.10.0?
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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.

Found in path(s):
* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/README.rst

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

license="MIT License",
'License :: OSI Approved :: MIT License",

Found in path(s):
* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/setup.py

1.855 kr-text 0.1.0
1.855.1 Available under license :
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1.856 jetty-servlets 9.4.35.v20201120

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.857 cidr-regex 3.1.1

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1.858 gmp 6.1.2+dfsg 2

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identification within third-party archives.
package api

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

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

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

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

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

    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  

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

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

    // The product the license is valid for  
    Product string `json:"product"`  
}
// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

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

}

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

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

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

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

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply

r := op.c.newRequest("DELETE", "/v1/operator/license")
  r.setWriteOptions(opts)
  _, resp, err := requireOK(op.c.doRequest(r))
  if err != nil {
    return nil, err
  }
  defer resp.Body.Close()
  if err := decodeBody(resp, &reply); err != nil {
    return nil, err
  }
  return &reply, nil
}

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

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import (  
  "encoding/json"
  
  "github.com/go-openapi/swag"
)
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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

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

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Protocol Buffers for Go with Gadgets

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

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"bytes"
"context"
"encoding/xml"
"fmt"
"net/http"
"net/url"
"github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

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const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \%v\", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    // ...
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
})
deferr closeResponse(resp)
if err != nil {
  return nil, err
}
if resp != nil {
  if resp.StatusCode != http.StatusOK {
    return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
}
lh := &objectLegalHold{
  if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
  }
}

return &lh.Status, nil

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1.871 kubernetes-apimachinery 0.0.0-20191016110408-35e52d86657a

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1.872 go-runtime 1.13.1

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jar/com/google/errorprone/annotations/NoAllocation.java
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ASN.1 library for Python
=================================
.. toctree::
    :maxdepth: 1

Abstract Syntax Notation One (ASN.1)<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------
ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`__ or `FlatBuffers <https://google.github.io/flatbuffers/>`__ for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

   /example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

   /download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

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Getting help
-------------


Books on ASN.1
---------------

```
The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

```
If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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ASN.1 library for Python
------------------------
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
    ),
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python `dict`, ‘SET OF’ to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.
The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the `pyasn1-modules` [repo](https://github.com/etingof/pyasn1-modules).

How to get `pyasn1`
The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.892 jackson 2.11.1

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Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of Canonical and Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious
beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a
document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.

* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family’s licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the
Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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work) run the object code and to modify the work, including scripts to
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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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1.903 j2objc-annotations 1.3

1.904 kubernetes-component-base 0.0.0-20200826142205-e19964183377

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1.918 object-assign 4.1.1

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1.919 python-click 6.7-3

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Authenticator.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/io/FileSystem.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java
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// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"`
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}

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package simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            }
        }
    }
}
type LicenseManager struct {
    mo.LicenseManager

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

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

        return m
    }

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

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

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

        body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...)  
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }
    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]
            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...]...)  
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }
        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })
        return body
    }
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

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

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

    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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import "fmt"

// Notice is a migration warning

package migration

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

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const ( // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

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

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

### Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`

- `<pod-namespace>/<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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1.929 shell 0.7

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1.930 pyasn1-modules 0.2.8
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Last updated: 2009-02-28

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=== EOF ===

1.933 sysstat 11.6.1-1ubuntu0.1
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Last updated: 2009-02-28

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1.948 goleak 1.1.10

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1.956 Kubernetes/cli-runtime v0.17.2

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* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/NDC.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Appender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/BasicConfigurator.java
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* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Layout.java
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* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/xml/DOMConfigurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/xml/SimpleLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/HierarchyEventLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/HierarchyEventListener.java
1.959 libwww-robotrules-perl 6.01-1

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NAME
WWW::RobotRules - database of robots.txt-derived permissions

SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{  my $url = "http://some.place/robots.txt";
   my $robots_txt = get $url;
$rules->parse($url, $robots_txt) if defined $robots_txt;

{
my $url = "http://some.other.place/robots.txt";
my $robots_txt = get $url;
$rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
   $c = get $url;
...
}

DESCRIPTION
This module parses /robots.txt files as specified in "A Standard for
Webmasters can use the /robots.txt file to forbid conforming robots from
accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
/robots.txt files on any number of hosts.

The following methods are provided:

$rules = WWW::RobotRules-&gt;new($robot_name)
   This is the constructor for WWW::RobotRules objects. The first
   argument given to new() is the name of the robot.

$rules-&gt;parse($robot_txt_url, $content, $fresh_until)
   The parse() method takes as arguments the URL that was used to
   retrieve the /robots.txt file, and the contents of the file.

$rules-&gt;allowed($uri)
   Returns TRUE if this robot is allowed to retrieve this URL.

$rules-&gt;agent([$name])
   Get/set the agent name. NOTE: Changing the agent name will clear the
   robots.txt rules and expire times out of the cache.

ROBOTS.TXT
The format and semantics of the "/robots.txt" file are as follows (this
is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):
The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

```
<field-name>: <value>
```

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

**User-Agent**
The value of this field is the name of the robot the record is describing access policy for. If more than one *User-Agent* field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is '*', the record describes the default access policy for any robot that has not not matched any of the other records.

The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

**Disallow**
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved.

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES
The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear
```

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
```
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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# Bender: "Well, I don't have anything else
# planned for today. Let's get drunk!"

=head1 NAME

WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
    my $url = "http://some.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
    my $url = "http://some.other.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

=head1 DESCRIPTION

This module parses F</robots.txt> files as specified in
"A Standard for Robot Exclusion", at
<http://www.robotstxt.org/wc/norobots.html>
Webmasters can use the F</robots.txt> file to forbid conforming
robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
F</robots.txt> files on any number of hosts.

The following methods are provided:

=over 4

=item $rules = WWW::RobotRules->new($robot_name)

This is the constructor for WWW::RobotRules objects. The first
argument given to new() is the name of the robot.

=item $rules->parse($robot_txt_url, $content, $fresh_until)
The parse() method takes as arguments the URL that was used to retrieve the F<robots.txt> file, and the contents of the file.

=item $rules->allowed($uri)

Returns TRUE if this robot is allowed to retrieve this URL.

=item $rules->agent([$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

=head1 ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

=over 3

=item User-Agent

The value of this field is the name of the robot the record is describing access policy for. If more than one I<User-Agent> field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is "*", the record describes the default access policy for any robot that has not not matched any of the other records.

The I<User-Agent> fields must occur before the I<Disallow> fields. If a record contains a I<User-Agent> field after a I<Disallow> field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that I<User-Agent> field, and will break the record into two. All the fields before the I<User-Agent> field will constitute a record, and the I<User-Agent> field will be the first field in a new record.
Disallow

The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved.

Unrecognized records are ignored.

Robots.txt Examples

The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/"

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records.
However, the intention is clear.

=head1 SEE ALSO

L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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* /opt/cola/permits/1138400616_1614282214.96/0/libwww-robotrules-perl-6-01-orig-1-tar-gz/WWW-RobotRules-6.01/META.yml

1.960 parse 0.0.0-20160405071501-a0175ee3bccc

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1.961 eapache-channels 1.1.0

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1.962 gopkg-in/ldap 3.0.2

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1.966 glob 0.2.3

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1.967 six 1.16.0

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Marc Abramowitz
immerrr again
Alexander Artemenko
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Lee Ball
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1.968 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (  
  // HA means High Availability  
  HA = FeatureType("HA")  
  // DEV means developer licence  
  DEV = FeatureType("DEV")  
  // TRIAL means trial licence  
  TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane
type Licence struct {
  ArrayUUID    string `json:"arrayUUID,omitempty"
  ClusterID    string `json:"clusterID,omitempty"
  CustomerID   string `json:"customerID"
  CustomerName string `json:"customerName"
  Storage      int    `json:"storage"
  ValidUntil   time.Time `json:"validUntil"
  LicenceType  string `json:"licenceType"
  Features     map[FeatureType]bool `json:"features"
  Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
Open Source Used In SMI 2021.01.0-Jan-2022  9692

Key string "json:"key"

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= vendor/k8s.io/utils/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package migration

import "fmt"

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

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += `is unsupported by this migration tool in " + n.Version + 
    } else if n.Severity == SevNewDefault {
        s += `is added as a default in " + n.Version + 
    }


const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated"  // deprecated, but still completely functional
    SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
    in the Corefile
    SevNewDefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not
    present in the corefile.
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

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

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package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const (  
    // licenceAPIPrefix is a partial path to the HTTP endpoint.  
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
    resp, err := c.do(  
        "GET",  
        licenceAPIPrefix,  
        doOptions{}  
    )  
    if err != nil {  
        return nil, err  
    }  
    defer resp.Body.Close()  
    licence := &types.Licence{}  
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
        return nil, err  
    }  
    return licence, nil  
}

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  
    _, err := c.do(  
        "POST",  
        licenceAPIPrefix,  
        doOptions{  
            data: &types.LicenceKeyContainer{Key: licenceKey},  
        }  
    )  
    return err  
}

// LicenceDelete removes the current licence.  
func (c *Client) LicenceDelete() error {  
    resp, err := c.do(  
        "DELETE",  
        licenceAPIPrefix,  
        doOptions{}  
    )  
    if err != nil {  
        return err  
    }  
    return resp.Body.Close()  
}

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tomb - support for clean goroutine termination in Go.

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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 simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{  
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name: "Evaluation Mode",  
  Properties: []types.KeyAnyValue{    
    {      
      Key: "feature",      
      Value: types.KeyValue{        
        Key: "serialuri:2",        
        Value: "Remote virtual Serial Port Concentrator",      
      },    
    },    
    {      
      Key: "feature",      
      Value: types.KeyValue{        
        Key: "dvs",        
        Value: "vSphere Distributed Switch",      
      },    
    },  
  }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if 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
}
if req.LicenseKey == license.LicenseKey {
    m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
    return body
}
}
return body
}

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

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

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

        body.Res = new(types.UpdateLicenseLabelResponse)

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

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

        }

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

        return body
    }

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

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

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        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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Protocol Buffers for Go with Gadgets

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

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

- `\<pod-namespace>\<pod-name>:\<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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1.986 go-uber-org-multierr 1.5.0

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1.987 aopalliance-repackaged 2.5.0

1.988 go-openapi-errors 0.20.0

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1.989 netcat-traditional 1.10 41.1

1.989.1 Available under license:

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1.990 opentracing-go-stdlib 0.0.0-20190519235532-cf7a6c988dc9

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1.991 @isaacs/string-locale-compare 1.1.0

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1.992 x-net 0.0.0-20191003171128-d98b1b443823

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1.993 metrics-json 4.1.16

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.json
Build-Jdk-Spec: 11
Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Jackson Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.json
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.json;uses="com.codahale.metrics, com.fasterxml.jackson.core, com.fasterxml.jackson.databind";version="4.1.16"
Implementation-Title: Jackson Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;resolution=optional;version="[4.1,5)",com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.fasterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson.databind.ser.std;version="[2.9,3)"
Private-Package: com.codahale.metrics.json
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1171050082_1622804507.74/0/metrics-json-4-1-16-jar/META-INF/MANIFEST.MF

1.994 gzip 1.6 5ubuntu1.1

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1.998 protobuf 1.24.0

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1.1005 github.com/eapache/channels v1.1.0

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1.1006 cli-table3 0.6.0
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1.1007 githubcompletiergotoml v1.8.1
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1.1008 kubernetes-apimachinery 0.0.0-20191111054156-6eb29fdf75dc
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---

1.1009 aws-sdk-go 1.3.2

1.1009.1 Available under license:

   // Code generated by smithy-go-codegen DO NOT EDIT.

   package licensemanager

   import (
       "context"
       awsrmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
       "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
       "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
       "github.com/aws/smithy-go/middleware"
       smithyhttp "github.com/aws/smithy-go/transport/http"
   )

   // Deletes the specified license.
   func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {

---
if params == nil {
    params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFs,
    addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

}  

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string

}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
if err = addSetLoggerMiddleware(stack, options); err != nil { return err }
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil { return err }
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil { return err }
if err = addResolveEndpointMiddleware(stack, options); err != nil { return err }
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil { return err }
if err = addRetryMiddlewares(stack, options); err != nil { return err }
if err = addHTTPSignerV4Middleware(stack, options); err != nil { return err }
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil { return err }
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil { return err }
if err = addClientUserAgent(stack); err != nil { return err }
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil { return err }
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil { return err }
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil { return err }
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil { return err }
if err = addRequestIDRetrieverMiddleware(stack); err != nil { return err }
if err = addResponseErrorMiddleware(stack); err != nil {
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:       region,
        ServiceID:    ServiceID,
        SigningName:  "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
// * Status
// * KeyFingerprint
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:       region,
        ServiceID:    ServiceID,
        SigningName:  "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
   "context"
   awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
   "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
   "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
   "github.com/aws/smithy-go/middleware"
   smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.

Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

type CreateLicenseOutput struct {
    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
// This member is required.
KeyFingerprint *string

// Product SKU.

// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:          region,
        ServiceID:       ServiceID,
        SigningName:     "license-manager",
        OperationName:   "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData
}
// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// Beneficiary
//
// ProductSKU
//
// KeyFingerprint
//
// Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
}
LicenseArn *string

// License version.
Version *string

}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

def package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
        addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.1010 stringio 0.0.2

1.1010.1 Available under license:

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

    # StringIO

    ![Build Status](https://travis-ci.org/ruby/stringio.svg?branch=master)

Pseudo `IO` class from/to `String`.

This library is based on MoonWolf version written in Ruby. Thanks a lot.

```ruby
## Differences to `IO`

* `fileno` raises `NotImplementedError`.
* encoding conversion is not implemented, and ignored silently.

## Installation

Add this line to your application's Gemfile:
```
```
gem 'stringio'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install stringio
```

## Development

After checking out the repo, run `bin/setup` to install dependencies. Then, run `rake test` to run the tests. You can also run `bin/console` for an interactive prompt that will allow you to experiment.

To install this gem onto your local machine, run `bundle exec rake install`. To release a new version, update the version number in `version.rb`, and then run `bundle exec rake release`, which will create a git tag for the version, push git commits and tags, and push the `.gem` file to [rubygems.org](https://rubygems.org).

## Contributing

Bug reports and pull requests are welcome on GitHub at https://github.com/ruby/stringio.

## License

The gem is available as open source under the terms of the [2-Clause BSD License](https://opensource.org/licenses/BSD-2-Clause).

Found in path(s):

```
*/opt/cola/permits/1154562597_1618867372.75/0/stringio-0-0-2-gem/data-tar-gz/README.md
```

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

```
/******************************************************************************

stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp$
created at: Tue Feb 19 04:10:38 JST 2002

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******************************************************************************/
```

Found in path(s):
**1.1011 cairo 1.15.10 2ubuntu0.1**

**1.1011.1 Available under license:**

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Version 2, June 1991

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1.1012 libuv 1.42.0

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=head1 NAME
HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS
use HTTP::Negotiate qw(choose);

# ID   QS     Content-Type   Encoding Char-Set        Lang   Size
$variants = [['var1', 1.000, 'text/html',   undef,   'iso-8859-1',   'en',   3000],
              ['var2', 0.950, 'text/plain',  'gzip',  'us-ascii',     'no',    400],
              ['var3', 0.3,  'image/gif',   undef,   undef,          undef, 43555],
          ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

=head1 DESCRIPTION
This module provides a complete implementation of the HTTP content negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps> chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the
negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [$id, $qs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). I<E.g.>:

```perl
([\'var1\', 1, 2000], [\'var2\', 0.3, 512], [\'var3\', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or C<undef> if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=over 3

=item identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().
=item qs

This is a number between 0.000 and 1.000 that describes the "source quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

=item content-type

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

text/html
text/html;version=2.0
text/plain
image/gif
image/jpeg

=item content-encoding

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

gzip
compress

=item content-charset

This is the character set used when the variant contains text. The charset value should generally be C<undef> or one of these:

us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
iso-2022-kr
This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

- no               Norwegian
- en               International English
- en-US            US English
- en-cockney

This is the number of bytes used to represent the content.

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/**" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:
Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

=item Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

=item Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

=item Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension)."

=back

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=head1 AUTHOR

Gisle Aas <gisle@aas.no>

=cut

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/lib/HTTP/Negotiate.pm

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NAME
HTTP::Negotiate - choose a variant to serve

SYNOPSIS
use HTTP::Negotiate qw(choose);

# ID   QS  Content-Type   Encoding  Char-Set   Lang   Size
$variants =
    [['var1',  1.000, 'text/html',   undef,   'iso-8859-1',   'en',   3000],
     ['var2',  0.950, 'text/plain',  'gzip',  'us-ascii',     'no',    400],
     ['var3',  0.3,   'image/gif',   undef,   undef,          undef, 43555],
    ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

DESCRIPTION
This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [Sid, Sqs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from
the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). *E.g.::*:

```perl
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or `undef' if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use `undef' instead.

**identifier**

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

**qs**

This is a number between 0.000 and 1.000 that describes the "source quality". This is what draft-ietf-http-v11-spec-00.ps says about this value:

```
Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".
```

**content-type**

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

```
text/html
```
text/html;version=2.0
text/plain
image/gif
image/jpg

calendar
This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

gzip
compress

calendar
This is the character set used when the variant contains text. The charset value should generally be `undef' or one of these:

us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
iso-2022-kr
unicode-1-1
unicode-1-1-utf-7
unicode-1-1-utf-8

calendar
This describes one or more languages that are used in the variant. Language is described like this in draft-ietf-http-v11-spec-00.ps: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

no Norwegian
en International English
en-US US English
en-cockney

calendar
This is the number of bytes used to represent the content.

ACCEPT HEADERS
The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from draft-ietf-http-v11-spec-00.ps):
Accept
This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=\text{infinity}. If no Accept header is present, then the client accepts all media types with q=1.

For example:

```
Accept: audio/*;q=0.2;mbx=200000, audio/basic
```

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80\% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset
Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

```
Accept-Charset: iso-8859-1, unicode-1-1
```

Accept-Encoding
Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

```
Accept-Encoding: compress, gzip
```

Accept-Language
This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

```
Accept-Language: no, en-gb;q=0.8, de;q=0.55
```

would mean: "I prefer Norwegian, but will accept British English (with 80\% comprehension) or German (with 55\% comprehension)."
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AUTHOR
Gisle Aas <gisle@aas.no>

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-
  6.00/README
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-
  6.00/META.yml

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

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1.1022 go-runtime 1.11.2

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1.1023 spew 1.1.1

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1.1025 websocket-client 0.32.0

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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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1.1041 protocol-http 0.20.1-1.ph4

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# Protocol::HTTP

Provides abstractions for working with the HTTP protocol.


## Installation

Add this line to your application's Gemfile:

```ruby
```ruby
gem 'protocol-http'
```ruby
```

And then execute:

$ bundle

Or install it yourself as:

$ gem install protocol-http

## Usage

### Headers

```ruby
```ruby
require 'protocol/http/headers'
```ruby
```

headers = Protocol::HTTP::Headers.new

headers['Content-Type'] = "image/jpeg"
headers['content-type']
# => "image/jpeg"
```

### Reference
```
ruby
require 'protocol/http/reference'

reference = Protocol::HTTP::Reference.new("/search", q: 'kittens')

to_s
# => "/search?q=kittens"
```

### URL
```
ruby
require 'protocol/http/url'

reference = Protocol::HTTP::Reference.parse("/search?q=kittens")

parameters = Protocol::HTTP::URL.decode(reference.query_string)
# => {'q' => 'kittens'}
```

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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1.1062 libfile-listing-perl 6.04-1

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=head1 NAME

File::Listing - parse directory listing

=head1 SYNOPSIS

use File::Listing qw(parse_dir);
$ENV{LANG} = "C"; # dates in non-English locales not supported
for (parse_dir("ls -l")) {
   ($name, $type, $size, $mtime, $mode) = @$_;
   next if $type ne 'f'; # plain file
   #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz");
$dir = parse_dir("LISTING", '+0000');

=head1 DESCRIPTION

This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse.
It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.
The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from parse_dir() is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of [ $filename, $filetype, $filesize, $filetime, $filemode ]. The $filetype value is one of the letters 'f', 'd', 'l' or '?'. The $filetime value is the seconds since Jan 1, 1970. The $filemode is a bitmask like the mode returned by stat().

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NAME
SYNOPSIS

use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir("ls -l")) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f'; # plain file
    #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz|");
$dir = parse_dir("\LISTING", '+0000');

DESCRIPTION

This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

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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 3a0982da308228d796df35f98d787c5cff2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.1077 base-files 10.1ubuntu2.11

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

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1.1091 libxml-parser-perl 2.44-2build3

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---

abstract: 'A perl module for parsing XML documents'
author:
  - Clark Cooper (coopercc@netheaven.com)'
build_requires:
Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: XML-Parser
no_index:
directory:
  - t
  - inc
requires:
  LWP::UserAgent: '0'
  perl: '5.00405'
resources:
  repository: http://github.com/toddr/XML-Parser
  version: '2.44'

Found in path(s):
  * /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/META.yml
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# LWPExternEnt.pl
#
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##
sub lwp_ext_ent_handler {
  my ($xp, $base, $sys) = @_; # We don't use public id
my $uri;

if (defined $base) {
    # Base may have been set by parsefile, which is agnostic about
    # whether its a file or URI.
    my $base_uri = new URI($base);
    unless (defined $base_uri->scheme) {
        $base_uri = URI->new_abs($base_uri, URI::file->cwd);
    }

    $uri = URI->new_abs($sys, $base_uri);
}
else {
    $uri = new URI($sys);
    unless (defined $uri->scheme) {
        $uri = URI->new_abs($uri, URI::file->cwd);
    }
}

my $ua = $xp->{_lwpagent};
unless (defined $ua) {
    $ua = $xp->{_lwpagent} = new LWP::UserAgent();
    $ua->env_proxy();
}

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
    $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
    return undef;
}

$xp->{_BaseStack} ||= [];
push(@( $xp->{_BaseStack} ), $base);

$xp->base($uri);

return $res->content;
} # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
    my ($xp) = @_;

    $xp->base(pop(@( $xp->{_BaseStack} )));
} # End lwp_ext_ent_cleanup
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/*****************************************************************
** Expat.xs
**
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**
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**
*/

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** encoding.h
**
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**/

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/**/)
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```xml
<![CDATA[<!ENTITY % pub "&xc9;ditions Gallimard" >
<!ENTITY rights "All rights reserved" >
<!ENTITY book "La Peste: Albert Camus, &#xA9; 1947 %pub;. &rights;" >]]>

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/samples/REC-xml-19980210.xml

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XML::Parser Version 2.40

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This is a Perl extension interface to James Clark's XML parser, expat.
It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from http://sourceforge.net/projects/expat/

Best way is to install expat development package with your OS package manager.
Debian/Ubuntu/similar: libexpat1-dev (old versions: expat-dev)

After that run `cpan XML::Parser`.

You can install this module from OS package too, but CPAN has most fresh version.
CentOS/RHEL/Fedora: perl-XML-Parser
Debian/Ubuntu/similar: should be already installed

XML::Parser installation requires gcc, so on MacOS X you need to download and run Xcode from Mac app store (~1.5 GB)

The documentation for this extension can be found in pod format at the end of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

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

To manually install this module, cd to the directory that contains this README file and type the following:
perl Makefile.PL

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl

Then to build you run make.

make

You can then test the module by typing:

make test

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#!' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

    perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

make install

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing list, to which you can subscribe by sending mail to:

subscribe-perl-xml@lyris.activestate.com

Differences from Version 2.30
--------------------------------

Version 2.31 is a minor bugfix release to allow XML::Parser to work under the forthcoming Perl 5.8.0 release. There are no functional changes.

Differences from Version 2.29
Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from http://sourceforge.net/projects/expat/. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper
coopercc@netheaven.com

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/README

1.1092 rake 12.3.1
1.1092.1 Available under license:

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1.1093 six 1.15.0

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Anselm Kruis
1.1094 deep-extend 0.6.0

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1.1095 bigdecimal 1.4.1
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/* Document-class: BigDecimal
   * BigDecimal provides arbitrary-precision floating point decimal arithmetic.
   *
   * == Introduction
   *
   * Ruby provides built-in support for arbitrary precision integer arithmetic.
   *
   * For example:
   *
   *42**13 #=> 1265437718438866624512
   *
   * BigDecimal provides similar support for very large or very accurate floating
   * point numbers.
   *
   * Decimal arithmetic is also useful for general calculation, because it
   * provides the correct answers people expect--whereas normal binary floating
   * point arithmetic often introduces subtle errors because of the conversion
   * between base 10 and base 2.
   *
   * For example, try:
   *
   * sum = 0
   * 10_000.times do
   *   sum = sum + 0.0001
   * end
   * print sum #=> 0.9999999999999062
   *
   * and contrast with the output from:
   *
   * require 'bigdecimal'
   *
   * sum = BigDecimal("0")
   * 10_000.times do
   *   sum = sum + BigDecimal("0.0001")
   * end
   * print sum #=> 0.1E1
   *
   * Similarly:
   *
   *(BigDecimal("1.2") - BigDecimal("1.0")) == BigDecimal("0.2") #=> true
   *
   *(1.2 - 1.0) == 0.2 #=> false
   *
   * == Special features of accurate decimal arithmetic
   *
* Because BigDecimal is more accurate than normal binary floating point arithmetic, it requires some special values.
*
* === Infinity
*
* BigDecimal sometimes needs to return infinity, for example if you divide * a value by zero.
*
*BigDecimal("1.0") / BigDecimal("0.0") #=> Infinity
*BigDecimal("-1.0") / BigDecimal("0.0") #=> -Infinity
*
* You can represent infinite numbers to BigDecimal using the strings
* <code>'Infinity'</code>, <code>'+Infinity'</code> and
* <code>'-Infinity'</code> (case-sensitive)
*
* === Not a Number
*
* When a computation results in an undefined value, the special value +NaN+ * (for 'not a number') is returned.
*
* Example:
*
*BigDecimal("0.0") / BigDecimal("0.0") #=> NaN
*
* You can also create undefined values.
*
* NaN is never considered to be the same as any other value, even NaN itself:
*
* n = BigDecimal('NaN')
* n == 0.0 #=> false
* n == n #=> false
*
* === Positive and negative zero
*
* If a computation results in a value which is too small to be represented as * a BigDecimal within the currently specified limits of precision, zero must * be returned.
*
* If the value which is too small to be represented is negative, a BigDecimal * value of negative zero is returned.
*
*BigDecimal("1.0") / BigDecimal("-Infinity") #=> -0.0
*
* If the value is positive, a value of positive zero is returned.
*
*BigDecimal("1.0") / BigDecimal("Infinity") #=> 0.0
*
* (See BigDecimal.mode for how to specify limits of precision.)
* Note that +0.0+ and +0.0+ are considered to be the same for the purposes of
* comparison.
*
* Note also that in mathematics, there is no particular concept of negative
* or positive zero; true mathematical zero has no sign.
*
* == bigdecimal/util
*
* When you require +bigdecimal/util+, the #to_d method will be
* available on BigDecimal and the native Integer, Float, Rational,
* and String classes:
*
* require 'bigdecimal/util'
*
*   42.to_d       #=> 0.42e2
*   0.5.to_d      #=> 0.5e0
*   (2/3r).to_d(3) #=> 0.667e0
*   "0.5".to_d    #=> 0.5e0
*
*
* == License
*
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* See LICENSE.txt for details.
* Maintained by mrkn <mrkn@mrkn.jp> and ruby-core members.
*
* Documented by zzak <zachary@zacharyscott.net>, mathew <meta@pobox.com>, and
* many other contributors.
*/

Found in path(s):
* /opt/cola/permits/1154561509_1618866929.81/0/bigdecimal-1-4-1-gem/data-tar-gz/ext/bigdecimal/bigdecimal.c

1.1096 kuler 2.0.0

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1.1097 coreutils 8.28 1ubuntu1

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1.1098 libencode-locale-perl 1.05-1

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Encode-Locale
=============

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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* /opt/cola/permits/1176891823_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/README
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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;
$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, "":encoding(console_in)");
    binmode(STDOUT, "":encoding(console_out)");
    binmode(STDERR, "":encoding(console_out)");
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename))
    || die "Can't open '$uni_filename': $!";
    binmode($fh, "":encoding(locale)");
...

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<< Encode::encode(locale => $bytes) >> and converted back again with C<< Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.
In addition to arranging for various Encode aliases the following functions and variables are provided:

=over

=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by "\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call. Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/Handling Malformed Data> for details on other options for CHECK.

=item env( $uni_key )

=item env( $uni_key => $uni_value )

Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can't be decoded replaced by "\x{FFFD}", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);

=item reinit( )

=item reinit( $encoding )

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.
With argument force $ENCODING_... variables to set to the given value.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale.
L<Encode> know this encoding as "locale".

=item $ENCODING_LOCALE_FS

The encoding name determined to be suitable for file system interfaces involving file names.
L<Encode> know this encoding as "locale_fs".

=item $ENCODING_CONSOLE_IN

=item $ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console.
L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up by the C<Encode::Locale> module:

| Encode     | Windows | Mac OS X | POSIX |
|------------+---------+----------+--------|
| Alias      |         |          |        |
| locale     | ANSI    | nl_langinfo | nl_langinfo |
| locale_fs  | ANSI    | UTF-8    | nl_langinfo |
| console_in | OEM     | nl_langinfo | nl_langinfo |
| console_out| OEM     | nl_langinfo | nl_langinfo |

=head2 Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as $ENCODING_LOCALE and the "locale" Encoding alias.
Windows systems also operate with another byte based character set. It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<I18N::Langinfo>, L<Encode>, L<Term::Encoding>

=head1 AUTHOR

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abstract: 'Determine the locale encoding'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Encode-Locale
no_index:
directory:
  - t
  - inc
recommends:
  I18N::Langinfo: '0'
requires:
  Encode: '2'
  Encode::Alias: '0'
  perl: '5.008'
resources:
  repository: http://github.com/gisle/encode-locale
version: '1.05'

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* /opt/cola/permits/1176891823_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/META.yml

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tomb - support for clean goroutine termination in Go.

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1.1105 performance-now 2.1.0

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SNMP SMI compiler
=================

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The PySMI library and tools are designed to parse, verify and transform
`SNMP SMI <https://en.wikipedia.org/wiki/Management_information_base>`_ MIB
modules from their original ASN.1 form into JSON or `pysnmp <http://snmplabs.com/pysnmp/>`
representation.

Documentation
-------------

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Source code & Changelog
-----------------------

Project source code is hosted at `GitHub <https://github.com/etingof/pysmi>`_.
Everyone is welcome to fork and contribute back!

We maintain the detailed `log of changes` to our software.

Download & Install
-------------------
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Changes
-------

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-------

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MIB files archive
-----------------

The PySMI project maintains a `collection <http://mibs.snmplabs.com/asn1/>`_ of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

The *mibdump.py* tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

Contact
-------

In case of questions or troubles using SNMP SMI library, please open up an `issue <https://github.com/etingof/pysmi/issues>`_ at GitHub or ask at `Stack Overflow <http://stackoverflow.com/questions/tagged/pysmi>`_ .

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SNMP MIB parser

-------------
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PySMI is a pure-Python implementation of 
[SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser. 
This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, 
JSON and [pysnmp](https://github.com/etingof/pysnmp) modules can be generated 
from ASN.1 MIBs.

Features
--------

* Understands SMIv1, SMIv2 and de-facto SMI dialects
* Turns MIBs into pysnmp classes and JSON documents
* Maintains an index of MIB objects over many MIB modules
* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, 
  HTTP and FTP servers
* 100% Python, works with Python 2.4 up to Python 3.7

Rendered PySMI documentation can be found at [pysmi site](http://snmplabs.com/pysmi).

How to use PySMI
----------------

If you are using pysnmp, you might never notice pysmi presence - pysnmp 
calls pysmi for MIB download and compilation behind the scenes (you can 
still do that manually by invoking *mibdump.py* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump.py* tool like this:

```bash
mibdump.py --generate-mib-texts --destination-format json IF-MIB
```

Source MIB repositories: file:///usr/share/snmp/mibs, http://mibs.snmplabs.com/asn1/@mib@
Borrow missing/failed MIBs from: http://mibs.snmplabs.com/json/fulltexts/@mib@
Existing/compiled MIB locations:
Compiled MIBs destination directory: .
MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI, 
RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM 
MIBs to compile: IF-MIB
Destination format: json
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB
Pre-compiled MIBs borrowed:
Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC
Missing source MIBs:
Ignored MIBs:
Failed MIBs:

```json
JSON document build from
[IF-MIB module](http://mibs.snmplabs.com/asn1/IF-MIB)
would hold information such as:

```
In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](http://mibs.snmplabs.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files. For example, JSON index for [IP-MIB.json](http://mibs.snmplabs.com/json/asn1/IP-MIB), [TCP-MIB.json](http://mibs.snmplabs.com/json/asn1/TCP-MIB) and [UDP-MIB.json](http://mibs.snmplabs.com/json/asn1/UDP-MIB) modules would keep information like this:

```json
{
    "compliance": {
        "1.3.6.1.2.1.48.2.1.1": [ "IP-MIB" ],
        "1.3.6.1.2.1.49.2.1.1": [ "TCP-MIB" ],
        "1.3.6.1.2.1.50.2.1.1": [ "UDP-MIB" ]
    },
    "identity": {
```
```
"1.3.6.1.2.1.48": [
    "IP-MIB"
],
"1.3.6.1.2.1.49": [
    "TCP-MIB"
],
"1.3.6.1.2.1.50": [
    "UDP-MIB"
],
"oids": {
    "1.3.6.1.2.1.4": [
        "IP-MIB"
    ],
    "1.3.6.1.2.1.5": [
        "IP-MIB"
    ],
    "1.3.6.1.2.1.6": [
        "TCP-MIB"
    ],
    "1.3.6.1.2.1.7": [
        "UDP-MIB"
    ],
    "1.3.6.1.2.1.49": [
        "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
        "UDP-MIB"
    ]
}
```

With this example, *compliance* and *identity* keys point to
*MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids*
list top-level OIDs branches defined in MIB modules. Full index
build over thousands of MIBs could be seen
[here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites
or local directories. You could configure any MIB source available to you (including

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

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You could `pip install pysmi` or download it from [PyPI](https://pypi.org/project/pysmi/).

If something does not work as expected, [open an issue](https://github.com/etingof/pysmi/issues) at GitHub or post your question on Stack Overflow.

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a0ae433/pysmi/reader/ftpclient.py
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package github

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

func TestLicensesService_List(t *testing.T) {  
    setup()  
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {  
        testMethod(t, r, "GET")
    })
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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

fields:
  site: string

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package github

import "fmt"
// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`  
    Name *string `json:"name",omitempty` 
    URL  *string `json:"url",omitempty` 
    HTMLURL        *string   `json:"html_url",omitempty` 
    Featured       *bool     `json:"featured",omitempty` 
    Description    *string   `json:"description",omitempty` 
    Category       *string   `json:"category",omitempty` 
    Implementation *string   `json:"implementation",omitempty` 
    Required       *[]string `json:"required",omitempty` 
    Permitted      *[]string `json:"permitted",omitempty` 
    Forbidden      *[]string `json:"forbidden",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() ([]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)

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

    return *licenses, resp, err
// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.1112 zlib 1.2.5

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1.1118 go-kit 0.10.0

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1.1119 go-runtime 1.13.8

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========

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

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

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1.1122 sleuthkit 4.4.2-3

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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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rijndael-alg-fst.c

Tôi version 3.0 (December 2000)

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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---

* DNS resolver (dirmngr/dns.c)

** dns.c - Recursive, Reentrant DNS Resolver.

```
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/**
* This class holds a JSON object in a LinkedHashMap.
* LinkedHashMap used to keep fields in same order as they are
* when reflecting them in Java. Instances of this class hold a
* Map-of-Map representation of a Java object, read from the JSON
* input stream.
* 
* @param <K> field name in Map-of-Map
* @param <V> Value
* 
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/**
* Read an object graph in JSON format and make it available in Java objects, or
* in a "Map of Maps." (untyped representation). This code handles cyclic references
* and can deserialize any Object graph without requiring a class to be 'Serializeable'
* or have any specific methods on it. It will handle classes with non public constructors.
* <br/>
* Usages:
* <ul>
* <li>Call the static method: [@code JsonReader.objectToJava(String json)]. This will
* return a typed Java object graph.</li>
* </ul>
* <li>Call the static method: [@code JsonReader.jsonToMaps(String json)]. This will
* return an untyped object representation of the JSON String as a Map of Maps, where
* the fields are the Map keys, and the field values are the associated Map's values. You can
* call the JsonWriter.objectToJson() method with the returned Map, and it will serialize
* the Graph into the identical JSON stream from which it was read.</li>
* */
* Instantiate the JsonReader with an InputStream: [@code JsonReader(InputStream in)] and then call
  * [@code readObject()]. Cast the return value of readObject() to the Java class that was the root of
  * the graph.
  * </li>
  * <li>
* Instantiate the JsonReader with an InputStream: [@code JsonReader(InputStream in, true)] and then call
  * [@code readObject()]. The return value will be a Map of Maps.
  * </li></ul>

* @author John DeRegnaucourt (jdereg@gmail.com)
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*/

**
* Output a Java object graph in JSON format. This code handles cyclic
* references and can serialize any Object graph without requiring a class
* to be 'Serializable' or have any specific methods on it.
* <hr/> Using streams:
* <pre> JsonWriter writer = new JsonWriter(stream);
* writer.write(employee);
* writer.close();</pre>
* This will write the 'employee' object to the passed in OutputStream.
* </li>
* </li>
* <p>That's it. This can be used as a debugging tool. Output an object
* graph using the above code. You can copy that JSON output into this site
* which formats it with a lot of whitespace to make it human readable:
* http://jsonformatter.curiousconcept.com
This will output any object graph deeply (or null). Object references are properly handled. For example, if you had A->B, B->C, and C->A, then A will be serialized with a B object in it, B will be serialized with a C object in it, and then C will be serialized with a reference to A (ref), not a redefinition of A.

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1.1142 string-width 4.2.2
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1.1149 aws-sdk-go 1.36.15

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

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

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BSON library for Go

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After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.1179 javassist 3.27.0-GA
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 * */

Found in path(s):
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/LoaderClassPath.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Mnemonic.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
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*/

Found in path(s):
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/annotation/DoubleMemberValue.java
1.1180 update-manager 18.04.11.13

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on Mon, 25 Oct 2004 21:49:07 +0200.

It was downloaded from http://code.launchpad.net/~ubuntu-core-dev/update-manager/main

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `"name":"the name","url":"the url"`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
}
assertParsesJSON(t, licenseJSON, license)
}
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package spec

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

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Documentation:
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Maven packaging:
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Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
 * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
 * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
 * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
 * VI syntax highlighting tweaks.
 * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
 * Heuristic detection of sub-messages when printing unknown fields in
text format.

Brian Atkinson <nairb774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>
* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

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

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
1.1191 jersey-media-json-jackson 2.28

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1.1193 bouncycastle-fips 1.0.2

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1.1194 python-jsonpatch 1.19+really1.16-1fakesync

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1.1195 giflib 5.2.1

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1.1198 githubcommattngorunewidth v0.0.3

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1.1199 xorg 7.7+19ubuntu7.1

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel
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 */

package minio

import (
"bytes"
"context"
"encoding/xml"
"fmt"
"net/http"
"net/url"
"github.com/minio/minio-go/v6/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (
// LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"
// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
return string(r)
}
// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
return r == LegalHoldEnabled || r == LegalHoldDisabled
}

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func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v\`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
    }
// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
def closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:         bucketName,
        objectName:         objectName,
        queryValues:        urlValues,
        contentSHA256Hex:   emptySHA256Hex,
    })
def closeResponse(resp)
    if err != nil {
        return nil, err
    }

if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}

minio-go

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1.1208 libdevmapper 2:1.02.145-4.1ubuntu3.18.04.3

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package main

import (
    "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}
// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Protocol Buffers for Go with Gadgets

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BSON library for Go

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mgo - MongoDB driver for Go

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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    moLICENSEManager
}

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

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

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
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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Feb, 2010

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1.1214 groupcache 0.0.0-20191027212112-611e8accdfc9

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1.1215 githubcomfsnotifyfsnotify v1.4.9

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1.1216 githubcomgregjoneshttpcache v0.0.0-20180305231024-9cad4c3443a7

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1.1217 libogg 1.3.5

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1.1218 fonts-ubuntu 0.83-2

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Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not
to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
- [5]SIL International
- [6]Open Font Library
- [7]Software Freedom Law Center
- [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of
the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL's terms do not apply to that document. (See OFL-FAQ for details.

* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing.

It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font
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- Clarification:
  2. Apply at point of distribution, instead of receipt
  3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
  4. Define "Propagate" (for internationalisation, similar to the GPLv3)
  5. Define "Substantially Changed"
  6. Trademarks are explicitly not transferred
  7. Refine renaming requirement

- Streamlining:
  8. Remove "not to be sold separately" clause
  9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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1.1220 goprotobuf 1.4.1

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1.1222 pflag 1.0.5

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1.1223 strace 4.21 1ubuntu1

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1.1224 iconv-lite 0.4.24
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1.1235 github.com/masterminds/sprig/v3 3.1.0

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Clockwork - a scheduler process to replace cron

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

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

Example

```ruby
require 'clockwork'
include Clockwork

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

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

Run it with the clockwork binary:

```
$ clockwork schedule.rb
```

Or run directly with Ruby:

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

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

[Delayed Job](http://www.therailway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

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

```ruby
require 'clockwork'
include Clockwork

require 'stalker'
include Stalker

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

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

```ruby
require 'config/boot'
require 'config/environment'
require 'clockwork'
include Clockwork

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

In production

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

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

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

Meta
----

Created by Adam Wiggins

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

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http://github.com/adamwiggins/clockwork

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1.1245 triple-beam 1.3.0

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1.1247 @npmcli/metavuln-calculator 2.0.0

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1.1250 python-gi 3.26.1 2ubuntu1

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1.1251 gofuzz 1.1.0
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1.1252 validate-npm-package-license 3.0.4
1.1252.1 Available under license:

validate-npm-package-license

Give me a string and I’ll tell you if it’s a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
    license is similar to the valid expression "Apache-2.0"
    ]
  }
)
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('GPL-3.0-only OR BSD-2-Clause'),
validSPDXExpression
);
```
... except if they contain `LicenseRef`:
```
```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
'"SEE LICENSE IN <filename>"',
]
};

assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);
assert.deepEqual(
valid('(MIT OR LicenseRef-Made-Up)'),
warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:
```
```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
validForNewPackages: true,
validForOldPackages: true,
inFile: 'LICENSE.txt'
}
);
```
{  
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
}:

```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.1253 ldap-utils 2.4.45+dfsg-1ubuntu1.10

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1.1254 goprotobuf 1.3.2

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1.1256 nopt 5.0.0
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1.1257 validator 13.7.0

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1.1259 x-text 0.3.5

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1.1260 markupsafe 1.1.1

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 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~~
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1.1261 ncurses 6.1-1ubuntu1.18.04
1.1261.1 Available under license :
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Titlepage anchor

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

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

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

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

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

That's all there is to it!

use vars qw(%result_texis %result_texts %result_trees %result_errors %result_indices %result_sectioning %result_nodes %result_menus %result_floats %result_converted %result_converted_errors %result_elements %result_directions_text);

use utf8;

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        'parent' => {},
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      {
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          }
        ],
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        'type' => 'paragraph'
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  },
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  }
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This is a copyright notice

';

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    ',
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    'macro' => '',
    'text' => 'no matching `@end copying`',
    'type' => 'error'
];
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The node you are looking for is at <a href="Chapter.html#Copying-information">Copying information</a>.</p>
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</html>
Appendix A Copying and indices

In the appendix, we print the indices and references.

Copying information for the copying information.

Public domain reference for reference on the licence.

Titlepage anchor for the titlepage.
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<thead>
<tr>
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<th>Section</th>
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<td>A</td>
<td>Appendix A Copying and indices</td>
</tr>
<tr>
<td>findex entry</td>
<td>Chapter</td>
</tr>
<tr>
<td>fun</td>
<td>Chapter</td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>F</td>
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</tbody>
</table>

Jump to: A, F

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Appendix A Copying and indices

In the appendix, we print the indices and references.

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Jump to: 

<table>
<thead>
<tr>
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<tr>
<td>C</td>
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<td>T</td>
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</tbody>
</table>

Index Entry: Section
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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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Appendix: How to Apply These Terms to Your New Programs

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

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Version 2.1, February 1999
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In other cases, permission to use a particular library in non-free
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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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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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1.1268 olekukonko-tablewriter v0.0.0-20190409134802-7e037d187b0c

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1.1269 fsouza-fake-gcs-server 1.7.0

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1.1270 go-urn v0.0.0-20181204092800-a67a23e1c1af

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1.1271 c3p0 0.9.5.4

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1.1272 mime-support 3.60ubuntu1

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Source: git://anonscm.debian.org/collab-maint/mime-support.git

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `"name":"the name","url":"the url"`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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1.1276 npm-init 0.0.0
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1.1277 kubernetes 1.21.2
1.1277.1 Available under license :

package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
DEV = FeatureType("DEV")

// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"
    ClusterID    string `json:"clusterID,omitempty"
    CustomerID   string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage      int `json:"storage"
    ValidUntil   time.Time `json:"validUntil"
    LicenceType  string `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622
package migration

import "fmt"

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

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (  
    deprecated = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

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

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
ekubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
ekubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```
bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `/<namespace>`.

- `<pod-namespace>/<pod-name>:<path>`

```
bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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package storageos

import (
    "encoding/json"

    "github.com/storageos/go-api/types"
)
const (  
// licenceAPIPrefix is a partial path to the HTTP endpoint.  
licenceAPIPrefix = "licencing"  
)  

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
if err != nil {  
return nil, err  
}  
defer resp.Body.Close()  
licence := &types.Licence{}  
if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
return nil, err  
}  
return licence, nil  
}  

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  
_, err := c.do("POST", licenceAPIPrefix, doOptions{  
data: &types.LicenceKeyContainer{Key: licenceKey},  
})  
return err  
}  

// LicenceDelete removes the current licence.  
func (c *Client) LicenceDelete() error {  
resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})  
if err != nil {  
return err  
}  
return resp.Body.Close()  
}  

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package simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
}
Properties: []types.KeyAnyValue{
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
  },
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
  
}

}

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

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

  return m
}

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

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

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

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

return body
}

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

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

return body
}

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

for i := range m.Licenses {
    license := &m.Licenses[i]
    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

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

return body


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


type LicenseAssignmentManager struct {
m.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
  body := &methods.QueryAssignedLicensesBody{
    Res: &types.QueryAssignedLicensesResponse{
      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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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.1286 orc 0.4.28-1

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6b.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@miiname.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

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

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

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

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

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

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

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*m4/ax_func_which_gethostbyname_r.m4*

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@heading END OF TERMS AND CONDITIONS
@end if{tex}
@if{info}
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@page
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Metadata-Version: 1.1
Name: pathlib2
Version: 2.3.6
Summary: Object-oriented filesystem paths
Home-page: https://github.com/mcmtroffaes/pathlib2
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
License: MIT
Description: **As of January 1 2020, this repository will no longer receive any further updates, as Python 2 is no
longer supported.**

The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_ module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_
module which tracks the standard library module,
so all the newest features of the standard pathlib can be
used also on older Python versions.
Download
--------

Standalone releases are available on PyPI:
http://pypi.python.org/pypi/pathlib2/

Development
-----------

The main development takes place in the Python standard library: see
the `Python developer's guide <http://docs.python.org/devguide/>`
In particular, new features should be submitted to the
`Python bug tracker <http://bugs.python.org/>`

Issues that occur in this backport, but that do not occur not in the
standard Python pathlib module can be submitted on
the `pathlib2 bug tracker <https://github.com/mcmtroffaes/pathlib2/issues>`.

Documentation
-------------

Refer to the
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`
documentation.

Known Issues
------------

For historic reasons, pathlib2 still uses bytes to represent file paths internally.
Unfortunately, on Windows with Python 2.7, the file system encoder (`mcbs`) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning.
For example, ``u''.encode(sys.getfilesystemencoding())`` results in ``????`` which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream, unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames.
See `issue #56 <https://github.com/mcmtroffaes/pathlib2/issues/56>`_ for more details.
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/* CMU libsasl
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 * Rob Siemborski

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1.1314 python-argh 0.26.2-1

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1.1315 dmsetup 1.02.145-4.1ubuntu3.18.04.3

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1.1317 ncurses 6.1-1ubuntu1.18.04

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1.1320 pyyaml 5.4.1
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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

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1.1332 jaxb-api 2.2.11
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1.1334 python-debian 0.1.32
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# vim: fileencoding=utf-8
#
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# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
"""Check the format and dumpability of debian/copyright filenames on stdin.
Usage:
find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py
The --suppress_warnings and --summary flags can be used to make the program
output less verbose.
"""
import argparse
import codecs

Open Source Used In SMI 2021.01.0-Jan-2022 16206


import io
import sys
import warnings
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = {}
    parse_failures = []
    dump_failures = []

    total = 0
    for filename in sys.stdin:
        total += 1
        filename = filename.rstrip()
        with io.open(filename, mode='rt', encoding='utf-8') as f:
            try:
                c = copyright.Copyright(f)
            except Exception as e:
                problems.setdefault((1, 'Parse failures'), []).append((filename, e))
                continue

            try:
                c.dump()
            except Exception as e:
                problems.setdefault((2, 'Dump failures'), []).append((filename, e))

            if not c.header.known_format():
                problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

    print('Summary:
    Parse failures: {}
    Dump failures: {}
    Unknown formats: {}'.format(len(parse_failures), len(dump_failures), len(problems)))

if __name__ == '__main__':
    main()
invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(','):
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)
    if invalid_globs:
        problems.setdefault((4, 'Invalid glob'), []).append((filename, invalid_globs))
    if globs_with_leading_dot_slash:
        problems.setdefault((5, 'Globs with leading ./'), []).append((filename, globs_with_leading_dot_slash))
    if globs_with_trailing_comma:
        problems.setdefault((6, 'Globs with trailing ,'), []).append((filename, globs_with_trailing_comma))
    if globs_with_double_star:
        problems.setdefault((7, 'Globs with **'), []).append((filename, globs_with_double_star))

f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
    f.write('
%s: (%d / %d)
' % (heading, len(problems), total))
    if not args.summary:
        for filename, problem in problems:
            f.write(' %s: %s
' % (filename, problem))

if __name__ == '__main__':
    main()
# vim: fileencoding=utf-8
#
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Utilities for parsing and creating machine-readable debian/copyright files.

The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Copyright docstring for usage information.

```python
from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = ('http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/')

_KNOWN_FORMATS = frozenset([
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
])

class Error(Exception):
    """Base class for exceptions in this module.""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file.""

class Copyright(object):
```
"""Represents a debian/copyright file.

A Copyright object contains a Header paragraph and a list of additional Files or License paragraphs. It provides methods to iterate over those paragraphs, in addition to adding new ones. It also provides a mechanism for finding the Files paragraph (if any) that matches a particular filename.

Typical usage:

```python
with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
    c = copyright.Copyright(f)

    header = c.header
    # Header exposes standard fields, e.g.
    print('Upstream name: ', header.upstream_name)
    lic = header.license
    if lic:
        print('Overall license: ', lic.synopsis)
    # You can also retrieve and set custom fields.
    header['My-Special-Field'] = 'Very special'

    # Find the license for a given file.
    paragraph = c.find_files_paragraph('debian/rules')
    if paragraph:
        print('License for debian/rules: ', paragraph.license)

    # Dump the result, including changes, to another file.
    with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
        c.dump(f=f)
```

It is possible to build up a Copyright from scratch, by modifying the header and using add_files_paragraph and add_license_paragraph. See the associated method docstrings.

"""

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
        NotMachineReadableError if `sequence` does not contain a
super(Copyright, self).__init__()

self.__paragraphs = []

if sequence is not None:
    paragraphs = list(deb822.Deb822.iter_paragraphs(
        sequence=sequence, encoding=encoding))
if not paragraphs:
    raise NotMachineReadableError('no paragraphs in input')
self.__header = Header(paragraphs[0])
for i in range(1, len(paragraphs)):
    p = paragraphs[i]
    if 'Files' in p:
        p = FilesParagraph(p)
    elif 'License' in p:
        p = LicenseParagraph(p)
    else:
        warnings.warn('Non-header paragraph has neither "Files"'
                       ' nor "License" fields')
        self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph."""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs"""
see all_paragraphs() for more information

```python
return self.all_paragraphs()
```

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    """
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')
    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenseParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
    """
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
        return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '
' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple.""
        return tuple(v for v in
                     (line.strip() for line in (s or '').strip().splitlines())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
if not l:
    return None

def process_and_validate(s):
    s = s.strip()
    if not s:
        raise ValueError('values must not be empty')
    if '\n' in s:
        raise ValueError('values must not contain newlines')
    return s

if len(l) == 1:
    return process_and_validate(l[0])

tmp = ['']
for s in l:
    tmp.append(' ' + process_and_validate(s))
return '\n'.join(tmp)

class _SpaceSeparated(object):
    """Namespace for conversion methods for space-separated lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
    def from_str(s):
        """Returns the values in s as a tuple (empty if only whitespace)."""
        return tuple(v for v in (s or '').split() if v)

    @classmethod
    def to_str(cls, seq):
        """Returns the sequence as a space-separated string (None if empty)."""
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError('values must not contain whitespace')
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            tmp.append(s)
        return '\n'.join(tmp)
# TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines that
    are blank or only whitespace are replaced with '.'
    """
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '
                line = ' ' + line
            out_lines.append(line)
    return '\n'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with '. '. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ')') from each proceeding line.
    - Replaces any line that is ' ' with an empty line.
    """
    if s is None:
        return None
    return '\n'.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    """
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
if line.startswith(' '):
    line = line[1:]
else:
    raise ValueError('continued line must begin with " "')
if line == '.':
    line = ''
lines[i] = line
return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable."""

    def __new__(cls, synopsis, text=' '):
        """Creates a new License object.

        :param synopsis: The short name of the license, or an expression giving
            alternatives. (The first line of a License field.)
        :param text: The full text of the license, if any (may be None). The
            lines should not be mangled for "deb822"-style wrapping - i.e. they
            should not have whitespace prefixes or single '.' for empty lines.
        """
        return super(License, cls).__new__(
            cls, synopsis=_single_line(synopsis), text=(text or ''))

    @classmethod
    def from_str(cls, s):
        if s is None:
            return None
        lines = parse_multiline_as_lines(s)
        if not lines:
            return cls('')
        return cls(lines[0], text='
'.join(itertools.islice(lines, 1, None)))

    def to_str(self):
        return format_multiline_lines([self.synopsis] + self.text.splitlines())

    # TODO(jsw): Parse the synopsis?
    # TODO(jsw): Provide methods to look up license text for known licenses?

    def globs_to_re(globs):
        r"""Returns an re object for the given globs.

        Only * and ? wildcards are supported. Literal * and ? may be matched via
        \* and \?, respectively. A literal backslash is matched \. Any other
        character after a backslash is forbidden."""
Empty globs match nothing.

Raises ValueError if any of the globs is illegal.

```python
buf = io.StringIO()
for i, glob in enumerate(globs):
    if i != 0:
        buf.write('|')
    i = 0
    n = len(glob)
    while i < n:
        c = glob[i]
        i += 1
        if c == '*':
            buf.write('.*')
        elif c == '?':
            buf.write('.')
        elif c == '\':
            if i < n:
                c = glob[i]
                i += 1
            else:
                raise ValueError('single backslash not allowed at end')
        else:
            buf.write(re.escape(c))

    raise ValueError('invalid escape sequence: \%s' % c)
else:
    buf.write(re.escape(c))
```

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(re.Z)  
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    """

    def __init__(self, data, _internal_validate=True):
        super(FilesParagraph, self).__init__(data)
    }
    if _internal_validate:
if 'Files' not in data:
    raise ValueError("""Files" field required"")

# For the other "required" fields, we just warn for now. Perhaps
# these should be upgraded to exceptions (potentially protected by
# a "strict" param).
if 'Copyright' not in data:
    warnings.warn('Files paragraph missing Copyright field')
if 'License' not in data:
    warnings.warn('Files paragraph missing License field')

if not self.files:
    warnings.warn('Files paragraph has empty Files field')

self.__cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField('Files', from_str=_SpaceSeparated.from_str,
to_str=_SpaceSeparated.to_str, allow_none=False)

copyright = deb822.RestrictedField('Copyright', allow_none=False)

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

    Minimally, this kind of paragraph requires a 'License' field and has no 'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.
    """

def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("'License" field required")
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or short name with exceptions (not an alternatives expression). This requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')
class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

    def __init__(self, data=None):
        """Initializer.

        :param parsed: A deb822.Deb822 object for underlying data. If None, a
                      new one will be created.
        """
        if data is None:
            data = deb822.Deb822()
            data['Format'] = _CURRENT_FORMAT

        if 'Format-Specification' in data:
            warnings.warn('use of deprecated "Format-Specification" field;
                           rewriting as "Format"')
            data['Format'] = data['Format-Specification']
            del data['Format-Specification']

        super(Header, self).__init__(data)

        fmt = self.format
        if fmt is None:
            raise NotMachineReadableError(
                'input is not a machine-readable debian/copyright')
        if fmt not in _KNOWN_FORMATS:
            warnings.warn('format not known: %r' % fmt)

    def known_format(self):
        """Returns True iff the format is known."""
        return self.format in _KNOWN_FORMATS

    def current_format(self):
        """Returns True iff the format is the current format."""
        return self.format == _CURRENT_FORMAT

    format = deb822.RestrictedField(
        'Format', to_str=_single_line, allow_none=False)

    upstream_name = deb822.RestrictedField(
        'Upstream-Name', to_str=_single_line)

    upstream_contact = deb822.RestrictedField(}
'Upstream-Contact', from_str=_LineBased.from_str,
to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
    Copyright (C) 2006-2010 John Wright <john@johnwright.org>
    Copyright (C) 2006 Adeodato Sim <dato@net.com.org.es>
    Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
    Copyright (C) 2014 Google, Inc.
License: GPL-2+

Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py
Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
    Copyright (C) 2008 Canonical Ltd.
License: GPL-2+

Comment: lib/debian/changelog.py's parsing code is based on that from dpkg which is:
Copyright 1996 Ian Jackson
Copyright 2005 Frank Lichtenheld <frank@lichtenheld.de>
and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py
Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>
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1.1335.1 Available under license :
CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.1336 ansi-align 3.0.1
1.1336.1 Available under license :
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1.1338 flask 0.12.2-3ubuntu0.1

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1.1345 netcat 1.10 41.1

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1.1346 timers 4.3.3

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# Timers

Collections of one-shot and periodic timers, intended for use with event loops such as [async](https://github.com/socketry/async).


## Installation

Add this line to your application's Gemfile:

```ruby
```
gem 'timers'
```
```

And then execute:

$ bundle

Or install it yourself as:

$ gem install timers

## Usage

Create a new timer group with `Timers::Group.new`:

```ruby
require 'timers'

require 'timers'
timers = Timers::Group.new
```
Schedule a proc to run after 5 seconds with `Timers::Group#after`:

```ruby
five_second_timer = timers.after(5) { puts "Take five" }
```

The `five_second_timer` variable is now bound to a Timers::Timer object. To cancel a timer, use `Timers::Timer#cancel`

Once you've scheduled a timer, you can wait until the next timer fires with `Timers::Group#wait`:

```ruby
# Waits 5 seconds
timers.wait

# The script will now print "Take five"
```

You can schedule a block to run periodically with `Timers::Group#every`:

```ruby
every_five_seconds = timers.every(5) { puts "Another 5 seconds" }

loop { timers.wait }
```

You can also schedule a block to run immediately and periodically with `Timers::Group#now_and_every`:

```ruby
now_and_every_five_seconds = timers.now_and_every(5) { puts "Now and in another 5 seconds" }

loop { timers.wait }
```

If you'd like another method to do the waiting for you, e.g. `Kernel.select`, you can use `Timers::Group#wait_interval` to obtain the amount of time to wait. When a timeout is encountered, you can fire all pending timers with `Timers::Group#fire`:

```ruby
loop do
  interval = timers.wait_interval
  ready_readers, ready_writers = select readers, writers, nil, interval

  if ready_readers || ready_writers
    # Handle IO
    ...
```
else
  # Timeout!
  timers.fire
end
end
```

You can also pause and continue individual timers, or all timers:

```ruby
paused_timer = timers.every(5) { puts "I was paused" }

paused_timer.pause
10.times { timers.wait } # will not fire paused timer

paused_timer.resume
10.times { timers.wait } # will fire timer

timers.pause
10.times { timers.wait } # will not fire any timers

timers.resume
10.times { timers.wait } # will fire all timers
```  

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1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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* /opt/cola/permits/1152136200_1618097576.61/0/socketry-timers-v4-3-3-0-g5c54bad-tar-gz/socketry-timers-5c54bad/spec/timers/priority_heap_spec.rb
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1.1347 cobra 1.1.1

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1.1361 kubectl 1.21.0-00

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- Copy files to and from Containers in a cluster
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`

```bash
```

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```bash
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

- `\<pod-namespace>\<pod-name>:<path>`

```bash
```

```bash
```

### 1.1362 googleapis-gnostic 0.3.0

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1.1364 irb 1.0.0

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1.1366 openssl 1.1.1l

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The End

1.1367 x-sys 0.0.0-20190916202348-b4ddaad3f8a3

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1.1368 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

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tomb - support for clean goroutine termination in Go.

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1.1369 findutils 4.6.0+git+20170828-2

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Version 3, 29 June 2007

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1.1376 jsr305 3.0.2
1.1376.1 Available under license:
    No license file was found, but licenses were detected in source scan.

    /*
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    Found in path(s):
    * /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
        jar/javax/annotation/concurrent/GuardedBy.java
    * /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
        jar/javax/annotation/concurrent/ThreadSafe.java
    * /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
        jar/javax/annotation/concurrent/Immutable.java
    * /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
        jar/javax/annotation/concurrent/NotThreadSafe.java

1.1377 libjte 1.20-2ubuntu2
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Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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- Copy files to and from Containers in a cluster

# Copying Container Files
## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

{% method %}

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `</namespace>`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

#### 1.1383 fonts-lato 2.0-2

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Lato font family

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

Version 2.007; Latin+Cyrillic+Greek+IPA opensource

Created by: tyPoland Lukasz Dziedzic
Creation year: 2014

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=============
Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Split between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights
# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

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

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1.1387 vcs 1.13.1

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1.1388 x-oauth2 0.0.0-20190604053449-0f29369cfe45

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package RESOURCE

import (  
"github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
commonResult
}
// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
commonResult
}
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}
// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}
// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
Links struct {
Next string `json:"next"`
Previous string `json:"previous"`
} `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
return "", err
}
return s.Links.Next, err
}

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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"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
----------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------
Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing
import (  
    "fmt"
    "net/http"
    "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `   
}
`

// GetResult provides a Get result.
const GetResult = `   
`
```
// CreateRequest provides the input to a Create request.
const CreateRequest = ```
{
}
```

// UpdateRequest provides the input to an Update request.
const UpdateRequest = ```
{
}
```

// UpdateResult provides an update result.
const UpdateResult = ```
{
}
```

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.Header().Set(\"Content-Type\", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprint(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)
    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 pagination.Pager{Err: err}
        }
        url += query
    }
    return pagination.NewPager(client, url, func(result pagination.PageResult) pagination.Page {
        return ResourcePage{pagination.LinkedPageBase{PageResult: result}}
    })
}

// 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)
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)
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/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647
Feature Request
--------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* [https://github.com/gophercloud/gophercloud/issues/310](https://github.com/gophercloud/gophercloud/issues/310)
* [https://github.com/gophercloud/gophercloud/issues/613](https://github.com/gophercloud/gophercloud/issues/613)
* [https://github.com/gophercloud/gophercloud/issues/729](https://github.com/gophercloud/gophercloud/issues/729)
* [https://github.com/gophercloud/gophercloud/issues/713](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/620)
* [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621)
* [https://github.com/gophercloud/gophercloud/issues/658](https://github.com/gophercloud/gophercloud/issues/658)

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

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

### Adding a Missing API Call

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

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

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

### Adding a Missing API Suite

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

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

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

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

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

### Adding a Missing OpenStack Project

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

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

* https://github.com/gophercloud/gophercloud/issues/723
With all of the above in mind, proceed to [Step 3][step-03-code-hunting.md] to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
  ID       string `json:"id"
  Name     string `json:"name"
  AdminStateUp bool `json:"admin_state_up"
  Status   string `json:"status"
  Subnets  []string `json:"subnets"
  TenantID string `json:"tenant_id"
  Shared   bool `json:"shared"
}
```

to look like

```go
type Network struct {
  ID          string `json:"id"
  Name        string `json:"name"
  AdminStateUp bool `json:"admin_state_up"
  Status      string `json:"status"
  Subnets     []string `json:"subnets"
  TenantID    string `json:"tenant_id"
  Shared      bool `json:"shared"
  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/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)
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**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.
* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

**1.1389 pam 1.1.8-3.6ubuntu2.18.04.3**

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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.ubuntu/modules/pam_motd/pam_motd.c

===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+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 */
+    
+    user = get_login_name(pamh);
+    if (user == NULL) return -1;
+    dir = get_dir(pamh, user);
+    if (flag = get_flag(pamh, user));
+    pwd = get_passwd(pamh, user);
+    s = stat(pwd, &s);
+    if (S_ISDIR(s.st_mode))
+        dir = basename(pwd);
+    else
+        dir = null;
+    if (flag = get_flag(pamh, user));
+    return retval; 
+}

Open Source Used In SMI 2021.01.0-Jan-2022  16492
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)
        {
            display_file(pamh, "/etc/legal");
            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;
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@ */
    display_file(pamh, motd_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 Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.1390 python 2.7.15~rc1 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.

All Python releases are Open Source (see http://www.opensource.org for
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1.1393 color-convert 2.0.1

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1.1394 debianutils 4.8.4

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1.1396 curl 7.75.0

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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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1.1413 commons-lang3 2.6

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

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* Basic encoding and decoding of Macintosh files to the
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The following copyright applies to the full-featured unreduce.c (now distributed separately):

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

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

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

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

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

1.1418 x-oauth2 0.0.0-20201208152858-08078c50e5b5

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1.1419 keyutils 1.5.9-9.2ubuntu2

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1.1421 python-ldap 3.4.0

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

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(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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@page
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@page
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@end smallexample
```

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

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```
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Version 2.1, February 1999

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```
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clouds:
test_cloud:
    region_name: RegionOne
    auth:
        auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
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1.1427 python-dateutil 2.8.2

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1.1428 wheel 0.30.0

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1.1429 serialize-javascript 6.0.0

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package cloud

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "strings"
test

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

1.1431 kubernetes-kubectl 0.18.0

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)
func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

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

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

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

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}

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

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,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() ([]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)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    return nil, nil, nil
}
req.Header.Set("Accept", mediaTypeLicensesPreview)

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

return license, resp, err

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1.1432 grpc-websocket-proxy 0.0.0-
20190109142713-0ad062ec5ee5

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1.1433 rsync 3.1.2-2.1ubuntu1.2

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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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**1.1436 libguestfs 1.36.13-1ubuntu3.3**

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(* virt-sparsify
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk.

open Unix
open Printf
open Common_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline
module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
    format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
* temporary files (including the potentially massive overlay file), we
* need to catch SIGINT (^C) and exit cleanly so the temporary file
* goes away.  Note that we don't delete temporaries in the signal
* handler.
*)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an
* input format, use that, else detect it from the source image.
*)
let output_format =
    match convert with
    | Some fmt -> fmt (* user specified output conversion *)
| None ->
match format with
| Some fmt -> fmt (* user specified input format, use that *)
| None ->
(* Don't know, so we must autodetect. *)
match (open_guestfs ())#disk_format indisk with
| "unknown" ->
error (f_"cannot detect input disk format; use the --format parameter")
| fmt -> fmt in
(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");
(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
match tmp_param with
| None -> Directory Filename.temp_dir_name (* $TMPDIR or /tmp *)
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
let file = String.sub file 9 (String.length file - 9) in
if not (Sys.file_exists file) then
error (f_"--tmp prebuilt:file: %s: file does not exist") file;
let g = open_guestfs () in
if g#disk_format file <> "qcow2" then
error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
if not (g#disk_has_backing_file file) then
error (f_"--tmp prebuilt:file: %s: file does not have backing file")
file;
Prebuilt_file file
| Some path ->
error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in
(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
(* Get virtual size of the input disk. *)
let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
debug "input disk virtual size is %Ld bytes (%s)"
virtual_size (human_size virtual_size);
let print_warning () =
let free_space = StatVFS.free_space tmpdir in
let extra_needed = virtual_size -^ free_space in
if extra_needed > 0L then (

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There may not be enough free space on %s. You may need to set TMPDIR to point to a directory with more free space.

Note this is an overestimate. If the guest disk is full of data then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the --check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%!

tmpdir (human_size virtual_size)
  (human_size free_space) (human_size extra_needed);
  true
) else false
in

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ()
| `Warn ->
  if print_warning () then (  
eprintf "Press RETURN to continue or ^C to quit.\n%!";
  ignore (read_line ()
  );
| `Fail ->
  if print_warning () then (  
eprintf "Exiting because --check-tmpdir=fail was set.\n%!";
  exit 2
)
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
  | Directory tmpdir ->
    message (f_"Create overlay file in %s to protect source disk") tmpdir
  | Block_device device ->
    message (f_"Create overlay device %s to protect source disk") device
  | Prebuilt_file file ->
    message (f_"Using prebuilt file %s as overlay") file
  );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
in

match tmp_place with
| Directory temp_dir ->
  let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
  unlink_on_exit tmp;
  create tmp;
  tmp

| Block_device device ->
  create device;
  device

| Prebuilt_file file ->
  (* Don't create anything, use the prebuilt file as overlay. *)
  file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

(* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
g#launch ();

g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
 * and selected swap partitions.
 *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs; g#zero_device fs)
  ) else (let mounted =
    try g#mount fs "/"; true
    with _ -> false in
    if mounted then (if is_readonly_btrfs_snapshot fs "/" then (}
info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
)
else if is_readonly_device "/" then (
    info (f_"Skipping %s, as it is a read-only device.") fs;
)
else (message (f_"Fill free space in %s with zero") fs;
    g#zero_free_space "/"
)
)
else (let is_linux_x86_swap =
    (* Look for the signature for Linux swap on i386.
     * Location depends on page size, so it definitely won't
     * work on non-x86 architectures (eg. on PPC, page size is
     * 64K).  Also this avoids hibernated swap space: in those,
     * the signature is moved to a different location.
     *)
    try g#pread_device fs 10 4086L = "SWAPSPACE2"
    with _ -> false in
    if is_linux_x86_swap then (
        message (f_"Clearing Linux swap on %s") fs;

        (* Don't use mkswap.  Just preserve the header containing
         * the label, UUID and swap format version (libguestfs
         * mkswap may differ from guest's own).
         *)
        let header = g#pread_device fs 4096 0L in
        g#zero_device fs;
        if g#pwrite_device fs header 0L <> 4096 then
            error (f_"pwrite: short write restoring swap partition header")
        )
    )
)
)

    g#umount_all ()
)
)
)
)
)
)
)
)
)
)
)

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
    if not (List.mem vg ignores) then (let lvname = String.random8 () in
        let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

        let created =
try g#lvcreate_free lvname vg 100; true
with _ -> false in

if created then (
  message (f_"Fill free space in volgroup %s with zero") vg;

  g#zero_device lvdev;
  g#sync ();
  g#lvremove lvdev
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
 * destination and automatically does sparsification.
 *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
  (quote output_format)
  (if compress then " -c" else "")
  (match option with
   | None -> ""
   | Some option -> " -o " ^ quote option)
  (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2b5b6.
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,
ext except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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<xsl: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="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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</xsl:stylesheet>
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1.1441 kubernetes-component-base 0.20.1

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()
}
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}

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package github

import "fmt"

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

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",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() ([]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)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}
// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.1451 ruby-defaults 2.5.1

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1.1454 yajl-ruby 1.4.1-2.ph4

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1.1455 libxext 1.3.3-1

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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.1468 ubuntu-advantage-tools 27.4~18.04.1

1.1468.1 Available under license :
Feature: License check timer only runs in environments where necessary

```plaintext
@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check job should run periodically on gcp generic lts
  Given a `<release>` machine with ubuntu-advantage-tools installed
    # verify its enabled
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # run it and verify that it didn't disable itself
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify attach disables it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify detach enables it
    When I run `ua detach --assume-yes` with sudo
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify stopping and deleting marker file and stopping disables it
    # We need to call stop both before and after rm-ing the marker file
    # because at least one version of systemd requires it before (245.4-4ubuntu3.11
    # on focal gcp), and every other tested version of systemd requires it after
    # But this is only necessary when manually running the steps or in this test.
    # `disable_license_checks_if_applicable` works fine with only calling stop after,
    # as evidenced by the "verify attach disables it" steps above passing on focal gcp.
    When I run `systemctl stop ua-license-check.timer` with sudo
    When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
    When I run `systemctl stop ua-license-check.timer` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes

Examples: version
```
| release | xenial | bionic | focal |
```

---
Scenario Outline: license_check is disabled gcp generic non lts
   Given a `<release>` machine with ubuntu-advantage-tools installed
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify creating marker file enables it, but it disables itself
   When I run `touch /var/lib/ubuntu-advantage/markercache` with sudo
   Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
   within `10` minutes
   When I run `systemctl start ua-license-check.service` with sudo
   When I wait `5` seconds
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify attach and detach does not enable it
   When I wait `5` seconds
   When I attach `contract_token` with sudo
   When I run `ua detach --assume-yes` with sudo
   When I wait `5` seconds
   Then I verify the `ua-license-check` systemd timer is disabled
   Examples: version
   | release |
   | hirsute |

@series.all
@uses.config.contract_token
@uses.config.machine_type.lxd.container
@uses.config.machine_type.lxd.vm
@uses.config.machine_type.aws.generic
@uses.config.machine_type.azure.generic
Scenario Outline: license_check is disabled everywhere but gcp generic
   Given a `<release>` machine with ubuntu-advantage-tools installed
   Then I verify the `ua-license-check` systemd timer is disabled
   When I reboot the `<release>` machine
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify creating marker file enables it, but it disables itself
   When I run `touch /var/lib/ubuntu-advantage/markercache` with sudo
   Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
   within `10` minutes
   When I run `systemctl start ua-license-check.service` with sudo
   When I wait `5` seconds
   And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
   And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify attach and detach does not enable it
   When I wait `5` seconds
   When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version
| release |
| xenial |
| bionic |
| focal |
| hirsute |
| impish |

@series.lts
@uses.config.machine_type.aws.pro
@uses.config.machine_type.azure.pro
@uses.config.machine_type.gcp.pro

Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
```
contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
```
When I run `ua auto-attach` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version
| release |
| xenial |
| bionic |
| focal |

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Version 3, 29 June 2007

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<one line to give the program’s name and a brief idea of what it does.>
# This timer is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.path).
# This timer triggers a service that will poll the metadata for a GCP instance.
# If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
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# The marker file used here is only created when on a GCP Ubuntu LTS instance
# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
1.1469 go-syslog 1.0.0
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Author: Per Bothner
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package cloud

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

var sentinels = []string{  "Copyright",  "Google",  `Licensed under the Apache License, Version 2.0 (the "License");`,  ``,  `
``
``
func TestLicense(t *testing.T) {  t.Parallel()  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {    if err != nil {      return err    }    return nil  })

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

1.1494 locales 2.27-3ubuntu1.4

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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv84@gmail.com>

* 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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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

<!sl-- 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:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
   <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
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1.1506 indent-string 4.0.0

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1.1508 path-is-absolute 1.0.1

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1.1509 pb 3.0.4

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1.1510 flask 0.12.2

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1.1511 bsd-mailx 8.1.2-0.20160123cvs-4

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```bash
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 +classwork
```

to save the current message in the classwork folder. If the classwork folder does not yet exist, it will be created. Note that messages which are saved with the
The `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 `copy` command, which is identical in all other respects to the `save` command. For example,

```
.l
copy +classwork
```

copies the current message into the `classwork` folder and leaves a copy in your system mailbox.

The `folder` command can be used to direct Mail to the contents of a different folder. For example,

```
.l
folder +classwork
```

directs Mail to read the contents of the `classwork` folder. All of the commands that you can use on your system mailbox are also applicable to folders, including `type`, `delete`, and `reply`.

To inquire which folder you are currently editing, use simply:

```
.l
folder
```

To list your current set of folders, use the `folders` command.

To start reading one of your folders, you can use the
The `f` option described in section 2. For example:
```
% Mail \f +classwork
```
will cause ` Mail` to read your ` classwork` folder without looking at your system mailbox.

```
% Mail \f +classwork
```

This section describes the format of messages. Messages begin with a `From` line, which consists of the word `From`
followed by a user name, followed by anything, followed by a date in the format returned by the ctime library routine described in section 3 of the Unix Programmer's Manual. A possible format date is:

Tue Dec  1 10:58:23 1981

The 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.
-PP
The message delivery system always adds a blank line to the end of
each message. This blank line must not be deleted.
-PP
The UUCP message delivery system sometimes adds a blank line to
the end of a message each time it is forwarded through a machine.
-PP
It should be noted that some network transport protocols enforce
limits to the lengths of messages.

Mail CommandDescription
-----------------------------------------------------
t [message list]type message(s).
more [message list]read message(s), through the $PAGER
ngoto 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).
qquit, 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.
~dRead dead.letter into message.
~eInvoke text editor on partial message.
~F messagesSame as ~f, but includes all headers.
~f messagesRead in messages.
~hEdit the header fields.
~M messagesSame as ~m, but includes all headers.
~m messagesRead in messages, right shifted by a tab.
~pPrint (show) the message buffer.
~qAbort message; optionally save copy to ~/dead.letter.
~r file | ~< fileRead a file into the message buffer.
~s stringSet Subject: field to string.
~t name ...Add names to To: field.
~vInvoke display editor on message.
~w filenameWrite message to file.
~xAbort message; no copy is saved.
~?Print a brief summary of tilde escapes.
~!commandExecute shell command.
~|commandPipe message through command.
~:command | _commandExecute a Mail command.
~~stringQuote a single tilde.
~.Simulate end of file on input.
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@(#)mail1.nr 8.1 (Berkeley) 6/8/93

sh 1 Introduction

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,
Mail is able to send and receive messages across such networks as the
ARPANET, 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 \-2UNIX\-0**

\-1UNIX\-0 is a trademark of Bell Laboratories.

shell, the text editor, and some of the common \-2UNIX\-0 commands.

"The \-2UNIX\-0 Programmer's Manual,"
"An Introduction to Csh,"
and
"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
.csh 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
sam,
then you can make
.csh notify you of new mail by including the following line in your .cshrc file:

```
(l
set mail=/var/mail/sam
)l
```
When you read your mail using

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.
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

```
.i Mail
```
to print

```
(Interrupt -- one more to kill letter)
```

Typing a second `<Control-C>` causes

```
.i 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.

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.

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
%
```
will send the reminder to sam, bob, and john.

If, when you log in, you see the message,

```
>.
You have mail.
>
```
you can read the mail by typing simply:
Mail

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 a

`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 09:21:45 1978  "Tuition fees"
N 2 sam   Tue Sep 20 22:55
```

you could examine the first message by giving the command:

```
type 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, (l t )l to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence, (l l )l 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 Mail by simply typing a newline. As a special case, you can type a newline as your first command to Mail to type the first message.

If, after reading a message, you wish to immediately send a reply, you can do so with the reply command.

like type , 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: (l reply )l
Mail responds by typing:

/l
To: root
Subject: Re: Tuition fees
/s
and waiting for you to enter your letter.
You are now in the message collection mode described at the beginning of this section and
Mail 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
.q "To:"
header listing several recipients,
Mail would arrange to send your reply to the same people as well.
Similarly, if the original message contained a
.q "Cc:"
(carbon copies to) field,
Mail would send your reply to those users, too.
Mail is careful, though, not too send the message to you, even if you appear in the
.q "To:"
or
.q "Cc:"
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:
/l
reply
To: root
Subject: Tuition fees

Thanks for the reminder
EOT
The reply command is especially useful for sustaining extended conversations over the message system, with other users receiving copies of the conversation. The reply command can be abbreviated to r.

Sometimes you will receive a message that has been sent to several people and wish to reply only to the person who sent it. Reply with a capital R replies to a message, but sends a copy to the sender only.

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 mail command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to frank, you would do:

```
mail frank
This is to confirm our meeting next Friday at 4.
EOT
```

The mail command can be abbreviated to m.

Normally, each message you receive is saved in the file mbox in your login directory at the time you leave 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
.b delete
command. In our example,
.i
delete 1
.i
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.

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
.i
set ask
.i
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
option tells
.i Mail
which shell you like to use, and is specified by
.(l
set SHELL=/bin/csh
.)l
for example. Note that no spaces are allowed in
.q "SHELL=/bin/csh."
A complete list of the
.i Mail
options appears in section 5.
.pp
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
option, you can make
.i 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 vBPAGERvP.
If vBPAGERvP is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
.(l
set crt=24
.)l
to paginate messages that will not fit on their screens.
In the default state, vImorevP (default paginator) prints a screenful of
Another adaptation to user needs that 
provides is that of
An alias is simply a name which stands for one or more 
real user names.

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 
defines an alias. Suppose that the users in a project are 
named Sam, Sally, Steve, and Susan. To define an alias called
for them, you would use the 
command: 

The 
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: 

so that you could send mail to the shorter name, 

While the 
and 
commands allow you to customize 
, 
they have the drawback that they must be retyped each time you enter
To make them more convenient to use, .i Mail always looks for two files when it is invoked. It first reads a system wide file .q /etc/mail.rc, then a user specific file, .q .mailrc, which is found in the user's home directory. The system wide file is maintained by the system administrator and contains .b set commands that are applicable to all users of the system. The .q .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 .b set command. The .q nosave option is described in section 5.

Mail aliasing is implemented at the system-wide level by the mail delivery system .i 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 .i alias is the mailing list name and the .i 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...
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 `letters` 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...
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 pre.
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 mbox without reading it, you may use the mbox command to have them so saved. For example,
(mbox 2 ) in our example would cause the second message (from sam) to be saved in mbox when the quit command is executed.
Mbox is also the way to direct messages to your mbox file if you have set the hold option described above.
Mbox can be abbreviated to mb.
When you have perused all the messages of interest, you can leave Mail with the .q mbox
b quit
command, which saves the messages you have typed but not
deleted in the file
i mbox
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
b quit
command can be abbreviated to simply
b q.

If you wish for some reason to leave
i 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.

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:
(l
!date
)l
will print the current date without leaving
i Mail.

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.

"OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
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This section describes some additional commands useful for
reading your mail, setting options, and handling lists of messages.

Along with
.type
.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
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

```
(l
   type 1-4
  )l
```

and to print all the messages from the current message to the last message, use

```
(l
   type .-$
  )l
```

A 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 root, do

```
(q root,
   do
   (l
      type root
   )l
  )l
```

As a shorthand notation, you can specify simply

```
(q *
   to get every
   .i relevant
   (same sense)
   message. Thus,
   (l
      type *
   )l
```

prints all undeleted messages,

```
(l
   delete *
  )l
```

deletes all undeleted messages, and

```
(l
   undelete *
  )l
```
undeletes all deleted messages.

You can search for the presence of a word in subject lines with

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

command goes to the previous message and prints it. The

command may be given a decimal number

as an argument, in which case the

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

but also print out ignored header fields. See also

Bprint, Bignore, and Bretain.

BPrint can be abbreviated to BP.

Note the capital BR 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 ~t, ~c, and ~b 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
.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.
\fBReply\p (and \fBRespond\p) can be abbreviated to \fBR\p.
.ip "\fBType\p \"
Identical to the
.b Print
command.
\fBType\p can be abbreviated to \fBT\p.
.ip "\fBalias\p \"
Define a name to stand for a set of other names.
This is used when you want to send messages to a certain
group of people and want to avoid retyping their names.
For example
.(l
alias project john sue willie kathryn
.)l
creates an alias
.i 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).
\fBAlias\p can be abbreviated to \fBal\p.
.ip "\fBalternates\p \"
If you have accounts on several machines, you may find it convenient
to use /etc/mail/aliases on all the machines except one to direct
your mail to a single account.
The
.b alternates
command is used to inform
.i Mail
that each of these other addresses is really
.i you .
Alternates takes a list of user names and remembers that they are all actually you. When you reply to messages that were sent to one of these alternate names, Mail will not bother to send a copy of the message to this other address (which would simply be directed back to you by the alias mechanism). If alternates is given no argument, it lists the current set of alternate names. Alternates is usually used in the .mailrc file. Alternates can be abbreviated to alt.

chdir The chdir command allows you to change your current directory. chdir takes a single argument, which is taken to be the pathname of the directory to change to. If no argument is given, chdir changes to your home directory. chdir can be abbreviated to c.

copy The copy command does the same thing that save does, except that it does not mark the messages it is used on for deletion when you quit. copy can be abbreviated to co.

delete 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, Mail says ``No more messages.'' delete commands delete the current message and print the next message. 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, Mail says ``No more messages.''

edit To edit individual messages using the text editor, the edit command is provided. The
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 .  
.i "\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.  
.i "\fBendif\fP\ " 
Marks the end of an 
.b if  
statement.  
.i "\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 \fBxit\fP. 
.i "\fBfile\fP\ "  
The same as  
.b folder  
\fBFile\fP can be abbreviated to \fBfi\fP. 
.i "\fBfolders\fP\ "  
List the names of the folders in your folder directory. 
.i "\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:
<table>
<thead>
<tr>
<th>Name</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Previous file read</td>
</tr>
<tr>
<td>%</td>
<td>Your system mailbox</td>
</tr>
<tr>
<td>%name</td>
<td>Name's system mailbox</td>
</tr>
<tr>
<td>&amp;</td>
<td>Your ~/mbox file</td>
</tr>
<tr>
<td>+folder</td>
<td>A file in your folder directory</td>
</tr>
</tbody>
</table>

*BFolder* can be abbreviated to *fo*.

The *from* command takes a list of messages and prints out the header lines for each one; hence

```bash
.l
from joe
.l
```

is the easy way to display all the message headers from `joe`.

*BFrom* can be abbreviated to *f*.

When you start up *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 `Subject:` header field of each message, if present. In addition, *Mail* tags the message header of each message that has been the object of the *preserve* command with a `P.` Messages that have been *saved* or *written* are flagged with a `*`. Finally, *deleted* messages are not printed at all. If you wish to reprint the current
list of message headers, you can do so with the
.command. The
.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.
.mail
maintains a notion of the current
.window into your messages for the purposes of printing headers.
Use the
.command to move forward a window,
and
.command to move back a window.
You can move
.mail's
notion of the current window directly to a particular message by
using, for example,
.headers 40
.to move
.mail's
attention to the messages around message 40.
.Headers can be abbreviated to .headers.

Print a brief and usually out of date help message about the commands
.in Mail.
The
.man page for
.mail
is usually more up-to-date than either the help message or this manual.
It is also a synonym for .help.

Arrange to hold a list of messages in the system mailbox, instead
of moving them to the file
.mbox
in your home directory. If you set the binary option
.hold ,
this will happen by default.
It does not override the .delete command.
_HOLD can be abbreviated to .hold.
Commands in your.

file can be executed conditionally depending on whether you are
sending or receiving mail with the

command. For example, you can do:

if receive
\commands...
endif

An

form is also available:

if send
\commands...
else
\commands...
endif

Note that the only allowed conditions are
receive
and
send.

N.B.:

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
is executed with no arguments, it lists the current set of ignored fields.
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.

```
/ip "\fBlist\fP\ "
```

List the valid
Mail commands.

```
\fBlist\fP can be abbreviated to \fBl\fP.
```

```
/ip \fBl\fP
../ 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 be the domain of the host. The first name on the local
.. list is the
.. i distinguished
.. name of the host.
.. The names on the local list are used by
.. i Mail
.. to decide which addresses are local to the host.
.. For example:
.. (.I
.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \n.. arpa.BERKELEY.ARPA r.BERKELEY.ARPA \n.. ucb-arpa.ARPA
.. .)I
.. From this list we see that
.. i "fred@ucbarpa.BERKELEY.ARPA",
.. i "harold@arpa.BERKELEY",
.. and
.. i "larry@r"
.. are all addresses of users on the local host.
.. The
.. b local
.. command is usually not used be general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
```

```
/ip "\fBmail\fP\ "
```

Send mail to one or more people. If you have the
Mail option set,
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
Mail.
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
  .b ~q
or
  .b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
  .ip "\fBmbox\fP\ ”
Indicate that a list of messages be sent to
  .i mbox
in your home directory when you quit. This is the default
action for messages if you do
  .i not
have the
  .i hold
option set.
  .ip "\fBmore\fP\ ”
Takes a message list and invokes the pager on that list.
  .ip "\fBnext\fP or \fB+\fP\ ”
The
  .b next
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 ”$".
Thus,
  .l
  next root
  .l
goes to the next message sent by
  .q root
and types it. The
  .b next
can be abbreviated to simply a newline, which means that one
can go to and type a message by simply giving its message number or
one of the magic characters
  .q ”^".
  .q ".".
or
  .q ”$".
Thus,
  .l
  \&.
  .l
prints the current message and
  .l
  4
  .l
prints message 4, as described previously.
\fBNext\fP can be abbreviated to \fBn\fP.
  .ip "\fBpreserve\fP\ ”
Same as .b hold.
Cause a list of messages to be held in your system mailbox when you quit.

\bPreserve\b can be abbreviated to \bpre\b.

.ip "\bfPrint\fP\n"
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\b variable.

The \bfPrint\fP command can be abbreviated to \bfpl\b.

.ip "\bfBquit\fP\n"
Terminates the session, saving all undeleted, unsaved and unwritten messages in the user's \fImbox\fP file in their login directory (messages marked as having been read), preserving all messages marked with \bhold\b or \bPreserve\b or never referenced in their system mailbox.

Any messages that were deleted, saved, written, or saved to \fImbox\fP 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 \bV-f\b 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 \bfExit\fP command.

\bfQuit\fP can be abbreviated to \bfq\b.

.ip "\bfReply\fP or \bfRespond\fP\n"
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 \b~t\b, \b~c\b, and \b~b\b 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 \bfReply\fP (and \bfRespond\fP) command can be abbreviated to \bfR\fP.

.ip "\bfRetain\fP\n"
Add 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.
.. ip "\fBsave\fP\ "
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:
.l
s 1 2 tuitionmail
.l
.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.
\fBSave\fP can be abbreviated to \fB\fP.
.. ip "\fBsavignore\fP\ "
\fBsavignore\fP is to \fBsave\fP what \fBignore\fP is to \fBprint\fP
and \fBtype\fR.
Header fields thus marked are filtered out when saving a message
by \fBsave\fP or when automatically saving to \fImbox\fP.
.. ip "\fBsaveretain\fP\ "
\fBsaveretain\fP is to \fBsave\fP what \fBretain\fP is to \fBprint\fP
and \fBtype\fR.
Header fields thus marked are the only ones saved with a message
when saving by \fBsave\fP or when automatically saving to \fImbox\fP.
\fBsaveretain\fP overrides \fBsavignore\fP.
.. ip "\fBset\fP\ "
Set an option or give an option a value. Used to customize
.Mail.
Section 5.3 contains a list of the options. Options can be
.binary,
in which case they are
.on
or
.off,
or
.valued.
To set a binary option
.option
.on,
do
{l
  set option
}l
To give the valued option
.option
.the value
.value,
do
{l
  set option=value
}l
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
.command.
\Set\ can be abbreviated to \se.
.ip `"shell"
The
.shell
command allows you to
.escape to the shell.
The
.shell
invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
.Mail.
The shell used is a default assumed by
.Mail;
you can override this default by setting the valued option
.SHELL,
\eg:
{l
  set SHELL=/bin/csh
}l
\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 \i mail \i commands from a file. It is useful when you are trying to fix your \q .mailrc \i file and you need to re-read it.

\fBSource\fP can be abbreviated to \fBso\fP.

\ip \"fbtop\fP \"
The \b top \i 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 \b top \i prints out by setting the valued option \q "toplines."

On a CRT terminal,
\q \l set toplines=10
\q \r
might be preferred.

\fBTop\fP can be abbreviated to \fBto\fP.

\ip \"fbtype\fP \"
Same as \fBprint\fP.
Takes a message list and types out each message on the terminal.
The \fBtype\fP command can be abbreviated to \fBt\fP.

\ip \"fbunalias\fP \"
Takes a list of names defined by \fBalias\fP commands and discards the remembered groups of users.
The group names no longer have any significance.

\ip \"fbundelete\fP \"
Takes a message list and marks each message as \fInot\fP being deleted.

\fBUndelete\fP can be abbreviated to \fBu\fP.

\ip \"fbunread\fP \"
Takes a message list and marks each message as \i not \i having been read.

\fBUnread\fP can be abbreviated to \fBU\fP.

\ip \"fbunset\fP \"
Takes a list of option names and discards their remembered values; the inverse of \fBset\fP.
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. Both the `edit` and `visual` commands assume some default text editors. The default for `EDITOR` is `/usr/bin/ex`. The default for `VISUAL` is `/usr/bin/vi`. These default editors can be overridden by the valued options `EDITOR` and `VISUAL` for the standard and screen editors. You might want to do:

```
(set EDITOR=/bin/ed VISUAL=/usr/bin/mg)
```

`visual` can be abbreviated to `v`.

The `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 `write` command. The `write` command has the same syntax as the `save` command, and can be abbreviated to simply `w`.

Thus, we could write the second message by doing:
As suggested by this example, the `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.

```plaintext
.write "file.c"
```

`Mail` presents message headers in windowfuls as described under the `headers` command.

You can move `Mail`'s attention forward to the next window by giving the `z+` command. Analogously, you can move to the previous window with:

```plaintext
.z-
```

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:

```plaintext
.q "Ask"
```

causes `Mail` to prompt you for a subject header, I am only capitalizing `ask` as a courtesy to English.

The valued option `EDITOR` defines the pathname of the text editor to be used in the `edit` command and ~e escape. If not defined, `EDITOR` is `/usr/bin/ex`
is used.

Pathname of the directory lister to use in the \texttt{folders} command. Default is \texttt{/bin/ls}.

The name of the \texttt{mbox} file. It can be the name of a folder. The default is `~mbox" in the user's home directory.

Pathname of the program to use for paginating output when it exceeds \texttt{Crt} lines. A default paginator is used if this option is not defined.

The valued option \texttt{SHELL} gives the path name of your shell. This shell is used for the \texttt{!} command and \texttt{~!} escape. In addition, this shell expands file names with shell metacharacters like * and ? in them.

The valued option \texttt{VISUAL} defines the pathname of the screen editor to be used in the \texttt{visual} command and \texttt{~v} escape. If not defined, \texttt{/usr/bin/vi} is used.

The \texttt{append} option is binary and causes messages saved in \texttt{mbox} to be appended to the end rather than prepended. Normally, \texttt{Mail} will put messages in \texttt{mbox} in the same order that the system puts messages in your system mailbox. By setting \texttt{append}, you are requesting that \texttt{mbox} be appended to regardless. It is in any event quicker to append.

\texttt{Ask} is a binary option which causes \texttt{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.

.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.

.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.

.q 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 automatically. This is useful when quickly scanning and deleting messages in your mailbox.

.q Bcrt
The valued option crt
is used as a threshold to determine how long a message must be before
.b PAGER
is used to read it.

.q Bdebug
The binary option debug
causes debugging information to be displayed. Use of this option is the same as using the \B-d\P command line flag.

.q Bdot
is a binary option which, if set, causes
.i Mail
to interpret a period alone on a line as the terminator of the message you are sending.

.q Bescape
To allow you to change the escape character used when sending
mail, you can set the valued option
.q escape.
Only the first character of the
.q 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
caracter, then ~ loses all its special meaning, and need no longer be doubled
at the beginning of a line.
.ip "\fBfolder\fP\ "
The name of the directory to use for storing folders of messages.
If this name begins with a `/`
.i Mail
considers it to be an absolute pathname; otherwise, the folder directory
is found relative to your home directory.
.ip "\fBhold\fP\ "
The binary option
.q 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.
.ip "\fBignore\fP\ "
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.
.ip "\fBignoreeof\fP\ "
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.
.ip "\fBindentprefix\fP\ "
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 `keep` option causes `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:

```
chmod 600 /var/mail/yourname
```

where `yourname` is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

The `keepsave` option.

When you save a message, `mail` usually discards it when you quit. To retain all saved messages, set the `keepsave` option.

The `metoo` 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 `-N` 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
.q nosave
prevents this.
.ip "\fBReplyall\fP\ "
Reverses the sense of
.i reply
and
.i Reply
commands.
.ip "\fBquiet\fP\ "
The binary option
.q quiet
suppresses the printing of the version when
.i Mail
is first invoked,
as well as printing the for example
.q "Message 4:"
from the
.b type
command.
.ip "\fBrecord\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 "\fBscreen\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
command.
.ip "\fBsearchheaders\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.

To use an alternate mail delivery system, set the
.option 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.

The valued option
.option toplines
defines the number of lines that the
.option top
command will print out instead of the default five lines.

The binary option "verbose" causes
.option Mail
to invoke sendmail with the
.flag -v
flag, which causes it to go into verbose mode and announce expansion
of aliases, etc. Setting the "verbose" option is equivalent to
invoking
.option Mail
with the
.flag -v
flag as described in section 6.
This section contains the definitions of a few phrases peculiar to `<Mail`.

- `<fIaliasfP>`
  An alternative name for a person or list of people.

- `<fIflagfP>`
  An option, given on the command line of `<Mail`, preaced with a `-`. For example, `-f` is a flag.

- `<fIheader fieldfP>`
  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`.

- `<fImailfP>`
  A collection of messages. Often used in the phrase, "Have you read your mail?"

- `<fImailboxfP>`
  The place where your mail is stored, typically in the directory `/var/mail`.

- `<fImessagefP>`
  A single letter from someone, initially stored in your mailbox.

- `<fImessage listfP>`
  A string used in `<Mail` command mode to describe a sequence of messages.

- `<fIoptionfP>`
  A piece of special purpose information used to tailor `<Mail` to your taste. Options are specified with the `set` command.
command.

"OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $"n

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SUCH DAMAGE.
This section gives a quick summary of the Mail 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 <code>next</code></td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of <code>Mail</code> commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>\s</td>
<td>Print message with ignored fields</td>
</tr>
<tr>
<td>\r</td>
<td>Reply to author of message only</td>
</tr>
<tr>
<td>\n</td>
<td>Same as <code>Reply</code></td>
</tr>
<tr>
<td>\t</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>alternates</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 <code>dt</code></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 <code>if</code></td>
</tr>
<tr>
<td>endif</td>
<td>End of conditional statement; see <code>if</code></td>
</tr>
<tr>
<td>exit</td>
<td>Leave mail 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 <code>?</code></td>
</tr>
<tr>
<td>hold</td>
<td>Same as <code>preserve</code></td>
</tr>
</tbody>
</table>
if Conditional execution of \fIMail\fP commands
ignore Set/examine list of ignored header fields
inc Incorporate new messages
list List valid \fIMail\fP commands
mail Send mail to specified names
mbox Arrange to save a list of messages in \fImbox\fP
more Invoke pager on message list
next Go to next message and type it
preserve Arrange to leave list of messages in system mailbox
print Print messages
quit Leave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate
reply Compose a reply to a message
respond Same as \fBreply\fP
save Append messages, headers included, on a file
saveignore List of headers to ignore when using the \fBsave\fP command
saveretain List of headers to retain when using the \fBsave\fP command
set Set binary or valued options
shell Invoke an interactive shell
size Prints out size of message list
source Read \fIMail\fP commands from a file
top Print first so many (5 by default) lines of list of messages
type Same as \fBprint\fP
unalias Remove alias
undelete Undelete list of messages
unread Marks list of messages as not been read
unset Undo the operation of a \fBset\fP
visual Invoke visual editor on a list of messages
write Append messages to a file, don't include headers
xit Same as \fBexit\fP
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 ~e and \fBedit\fP</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 \fImbox\fP file</td>
</tr>
<tr>
<td>PAGER</td>
<td>valued</td>
<td>Pathname of pager for \fBPrint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP</td>
</tr>
<tr>
<td>SHELL</td>
<td>valued</td>
<td>Pathname of shell for \fBshell\fP, ~! and \fB\fP</td>
</tr>
<tr>
<td>VISUAL</td>
<td>valued</td>
<td>Pathname of screen editor for ~v, \fBvisual\fP</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 \imbox\P 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>
</tbody>
</table>
~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 \fIstring\fP.
~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           Pipe message through \fIcommand\fP.
~:+command | ~_command Execute a \fIMail\fP command.
~:string            Quote a single tilde.
~.                    Simulate end of file on input.

The following table shows the command line flags that \i Mail
accepts:
<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td>Send blind carbon copies to \fIlist\fP.</td>
</tr>
<tr>
<td>-b \fIlist\fP</td>
<td>Send carbon copies to \fIlist\fP</td>
</tr>
<tr>
<td>-c \fIlist\fP</td>
<td>Send carbon copies to \fIlist\fP</td>
</tr>
<tr>
<td>-d</td>
<td>Turn on debugging</td>
</tr>
<tr>
<td>-f \fIname\fP</td>
<td>Show messages in \fIname\fP or \fI~/mbox\fP</td>
</tr>
<tr>
<td>-I</td>
<td>Force \fIMail\fP to run in interactive mode</td>
</tr>
<tr>
<td>-i</td>
<td>Ignore tty interrupt signals</td>
</tr>
<tr>
<td>-N</td>
<td>Suppress the initial printing of headers</td>
</tr>
<tr>
<td>-n</td>
<td>Inhibit reading of /etc/mail.rc</td>
</tr>
<tr>
<td>-s \fIsubject\fP</td>
<td>Use \fIsubject\fP as subject in outgoing mail</td>
</tr>
<tr>
<td>-T \fIfile\fP</td>
<td>Article-id's of read/deleted messages to \fIfile\fP</td>
</tr>
<tr>
<td>-u \fIuser\fP</td>
<td>Read \fIuser\fP's mail instead of your own</td>
</tr>
<tr>
<td>-v</td>
<td>Invoke sendmail with the \fB-v\fP flag</td>
</tr>
</tbody>
</table>

Notes:
\b -d
and
\b -T
are not for human use.
This section describes command line options for Mail and what they are used for.

- `-b list`
  Send blind carbon copies to list.
- `-c list`
  Send carbon copies to list of users. List should be a comma separated list of names.
- `-f file`
  Show the messages in file instead of your system mailbox. If file is omitted,
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".

The following command line flags are also recognized, but are
intended for use by programs invoking
.i Mail
and not for people.
.ip \-d
Turn on debugging information. Not of general interest.
.ip "\-T file"
Arrange to print on
.i file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
is for the
.i readnews

program and should NOT be used for reading your mail.
.A"$OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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.A" SUCH DAMAGE.
.A"
.A"@(#)mail4.nr8.2 (Berkeley) 5/16/94
.A"
.sh 1 "More about sending mail"
.sh 2 "Tilde escapes"
.pp
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.
.i Mail

provides these capabilities through
.i "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:
.1
~p
>]

which will print a line of dashes, the recipients of your message, and
the text of the message so far.

Since
.i 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.
.pp
If you are dissatisfied with the message as
it stands, you can invoke the text editor on it using the escape
.(l
~e
.(l

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.
.i 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
.i 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
.i vi
editor from UC Berkeley,
or
.i mg ,
an emacs-like editor.
To use the screen, or
.i 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
.i 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.
.i 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.
.pp
As a special case of ~r, the escape
.{l
~d
}.{l
reads in the file
.q dead.letter
in your home directory. This is often useful since
.i Mail
copies the text
of your message there when you abort a message with <Control-C>.
.pp
To save the current text of your message on a file you may use the
.{l
~w filename
}.{l
escape.
.i Mail
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.
.pp
If you are sending mail from within
.i Mail's
command mode
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

which replaces any previous subject with

The subject, if given, is sent near the top of the message prefixed with

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

adds the named people to the

list, similar to ~t. Again, you can execute ~p to see what the message will look like.

The escape

adds the named people to the

list, but does not make the names visible in the
The recipients of the message together constitute the field, the subject the field, and the carbon copies the field. If you wish to edit these in ways impossible with the ~t, ~s, ~c and ~b escapes, you can use the escape 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, would change the initial recipients to When you type a newline, advances to the field, where the same rules apply. Another newline brings you to the field, which may be edited in the same fashion. Another newline brings you to the ("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
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, Mail assumes that something is amiss and retains the old version of your message. A frequently-used filter is the command cmd, designed to format outgoing mail.

To effect a temporary escape to command mode instead, you can use the escape. This is especially useful for retyping the message you are replying to, using, for example:

It is also useful for setting options and modifying aliases.

If you wish abort the current message, you can use the escape

This will terminate the current message and return you to the shell (or Mail if you were using the command). If the option is set, the message will be copied to the file in your home directory.

If you wish to abort the current message, without saving any copy of it whatsoever, even if the option is set, you can use the escape

}`
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,

```
~x
```

sends the line

```
~This line begins with a tilde.
```

Finally, the escape

```
~?
```

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,
- and `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:

```
(l host!name )l
```

where, again,
```
(l host
)l
```
is the name of the machine and
```
(l name
)l
```
is the login name.

If your message must go through an intermediary machine first, you must use the syntax:

```
(l intermediary!host!name )l
```

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 `uname` command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

When you use the `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
```
"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.

Mail uses a heuristic to build the correct name for each user relative to the local machine. So, when you `reply` to remote mail, the names in the
As described previously, you can send mail to either user names or 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 (i.e., one for which a `/` would not usually be needed) you can precede the name with `./`
So, to send mail to the file memo in the current directory, you can give the command:
```
% Mail ./memo
```
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 alias command for the group. Using our previous alias example, you might give the command:
```
alias project sam sally steve susan /usr/project/mail_record
```
Then, all mail sent to "project" would be saved on the file /usr/project/mail_record as well as being sent to the members of the project. This file can be examined using
```
Mail \-f
```
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
```
Mail
```
To send messages to the billboard program, one can send mail to the special name `|billboard` for example.
Mail treats recipient names that begin with a `|' as a program to send the mail to. An alias can be set up to reference a `|' prefaced name if desired.

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 command. For example, if we wanted to alias `rmgs' to `rmgs -s' we would need to say:

```
alias rmsgs "| rmsgs -s"
```

**1.1512 logr 0.4.0**

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
  if params == nil {
    params = &DeleteLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*DeleteLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type DeleteLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.
  //
  // This member is required.
  LicenseArn *string

  // Current version of the license.
  //
  // This member is required.
  SourceVersion *string
}

type DeleteLicenseOutput struct {

  // Date on which the license is deleted.
}
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListReceivedLicensesOutput struct {
    // Received license details.
    Licenses []types.GrantedLicense
func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
  return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }
result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CreateLicenseInput struct {
    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}
type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// License entitlements.
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string
// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

---

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,  
addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    return err
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListLicensesOutput struct {

    // License details.
func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{

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result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {
    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    return nil
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    // This member is required.
    LicenseConsumptionToken *string
    // License beneficiary.
    Beneficiary *string
}
type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:  region,
        ServiceID: ServiceID,
        SigningName:  "license-manager",
        OperationName:  "CheckInLicense",
    }
}

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1.1524 accepts 1.3.7

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1.1525 os-service-types 1.7.0

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1.1527 simple-swizzle 0.2.2

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1.1528 util-linux 2.31.1-0.4ubuntu3.7

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Gocheck - A rich testing framework for Go

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU’ish --long-options.
Keywords: programming, library, lib, commandline, options
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Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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# Protocol::HTTP

Provides abstractions for working with the HTTP protocol.


## Installation

Add this line to your application's Gemfile:

```
``` ruby
gem 'protocol-http'
````

And then execute:
$ bundle

Or install it yourself as:

$ gem install protocol-http

### Usage

#### Headers

```ruby
require 'protocol/http/headers'

headers = Protocol::HTTP::Headers.new

headers['Content-Type'] = "image/jpeg"

headers['content-type']
# => "image/jpeg"
```

#### Reference

```ruby
require 'protocol/http/reference'

reference = Protocol::HTTP::Reference.new("/search", q: 'kittens')

reference.to_s
# => "/search?q=kittens"
```

#### URL

```ruby
require 'protocol/http/url'

reference = Protocol::HTTP::Reference.parse("/search?q=kittens")

parameters = Protocol::HTTP::URL.decode(reference.query_string)
# => {
"q" => "kittens"
```

#### Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (‘git commit -am 'Add some feature’’)
4. Push to the branch (‘git push origin my-new-feature’)
5. Create new Pull Request

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1.1540 prometheus-procfs 0.0.11

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promcfs provides functions to retrieve system, kernel and process
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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

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

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

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

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

type License struct {
    LicenseID string `json:"license_id"`

    CustomerID string `json:"customer_id"`

    InstallationID string `json:"installation_id"`

    IssueTime time.Time `json:"issue_time"`

    StartTime time.Time `json:"start_time"`

    ExpirationTime time.Time `json:"expiration_time"`

    TerminationTime time.Time `json:"termination_time"`

    Product string `json:"product"`

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

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

}

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

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

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

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

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

return &reply, nil
}

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

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

    return &reply, nil
}

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {  
    XMLNS string `xml:"xmlns,attr,omitempty"`  
    XMLName xml.Name `xml:"LegalHold"`  
    Status LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call


type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {

return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ",")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
package main

import (
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "os"
    "strings"
    "testing"
    "time"
    "url"
    "github.com/aws/aws-sdk-go/service/s3"
    "github.com/aws/aws-sdk-go/service/s3/s3utils"
    "github.com/aws/aws-sdk-go/service/s3/s3utils"
)

func main() {
    // GetObjectLegalHold gets legal-hold status of given object.
    func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
        GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
        // Input validation.
        if err := s3utils.CheckValidBucketName(bucketName); err != nil {
            return nil, err
        }
        if err := s3utils.CheckValidObjectName(objectName); err != nil {
            return nil, err
        }
        urlValues := make(url.Values)
        urlValues.Set("legal-hold", "")
        if opts.VersionID != "" {
        }
        // Execute GET on bucket to list objects.
        resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
            bucketName:       bucketName,
            objectName:       objectName,
            queryValues:      urlValues,
            contentSHA256Hex: emptySHA256Hex,
        })
        defer closeResponse(resp)
        if err != nil {
            return nil, err
        }
        if resp != nil {
            if resp.StatusCode != http.StatusOK {
                return nil, httpRespToErrorResponse(resp, bucketName, objectName)
            }
        }
        lh := &objectLegalHold{
            Status: &{}
        }
        if err := xml.NewDecoder(resp.Body).Decode(lh); err != nil {
            return nil, err
        }
        return &lh.Status, nil
    }

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1.1551 python-defaults 2.7.15~rc1-1

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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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dh_python2, pycmpile, pyclean and debpython module:

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1.1552 go-proxyproto 0.0.0-20190615163442-2c19fd512994

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1.1555 pycrypto 2.6.1 8ubuntu2
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Last updated: 2009-02-28

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1.1564 nginx-core 1.14.0-0ubuntu1.9

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1.1567 go-runtime 1.5.1
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1.1577 python-certifi 2021.5.30
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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla’s root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webservers for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1578 mergero 0.3.8

1.1578.1 Available under license:

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

1.1579 libhttp-message-perl 6.14-1

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Found in path(s):
=head1 NAME

HTTP::Date - date conversion routines

=head1 SYNOPSIS

use HTTP::Date;

$string = time2str($time);  # Format as GMT ASCII time
$time = str2time($string);  # convert ASCII date to machine time

=head1 DESCRIPTION

This module provides functions that deal the date formats used by the
HTTP protocol (and then some more). Only the first two functions,
time2str() and str2time(), are exported by default.

=over 4

=item time2str( [$time] )

The time2str() function converts a machine time (seconds since epoch)
to a string. If the function is called without an argument or with an
undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol.
This is a fixed length subset of the format defined by RFC 1123,
represented in Universal Time (GMT). An example of a time stamp
in this format is:

   Sun, 06 Nov 1994 08:49:37 GMT

=item str2time( $str [, $zone] )

The str2time() function converts a string to machine time. It returns
<undef> if the format of $str is unrecognized, otherwise whatever the
<Time::Local> functions can make out of the parsed time. Dates
before the system's epoch may not work on all operating systems. The
time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the
default time zone to use when converting the date. This parameter is
ignored if the zone is found in the date string itself. If this
parameter is missing, and the date string format does not contain any
zone specification, then the local time zone is assumed.
If the zone is not "C<GMT>" or numerical (like "C<-0800>" or "C<+0100>"), then the C<Time::Zone> module must be installed in order to get the date recognized.

=item parse_date( $str )

This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year will be the full 4-digit year, and $month numbers start with 1 (for January).

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned (C<undef> in scalar context).

The function is able to parse the following formats:

"Thu Feb 3 17:03:55 GMT 1994"          -- ctime(3) format
"Thu Feb 3 00:00:00 1994",              -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT"     -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT"    -- broken rfc850 HTTP format
"03/Feb/1994:17:03:55 -0700"          -- common logfile format
"09 Feb 1994 22:23:32 GMT"            -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT"              -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT"            -- broken rfc850 format (no weekday)
"1994-02-03 14:15:29 -0100"           -- ISO 8601 format
"1994-02-03 14:15:29"                 -- zone is optional
"1994-02-03"                          -- only date
"1994-02-03T14:15:29"                 -- Use T as separator
"19940203T141529Z"                    -- ISO 8601 compact format
"19940203"                            -- only date
"08-Feb-94"                            -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994"                          -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994"                          -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994"                          -- common logfile format (no time, no offset)
"Feb 3 1994"                           -- Unix 'ls -l' format
"Feb 3 17:03"                          -- Unix 'ls -l' format
"11-15-96 03:52PM"                    -- Windows 'dir' format
The parser ignores leading and trailing whitespace. It also allow the
seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first
matching date before current month. If the year is given with only
2 digits, then parse_date() will select the century that makes the
year closest to the current date.

=item time2iso( [$time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted
string representing time in the local time zone.

=item time2isoz( [$time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted
string representing Universal Time.

=back

=head1 SEE ALSO

L/perlfunc/time>, L/Time::Zone>

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NAME
  HTTP::Date - date conversion routines

SYNOPSIS
  use HTTP::Date;

  $string = time2str($time);  # Format as GMT ASCII time
  $time = str2time($string);  # convert ASCII date to machine time
DESCRIPTION
This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

```
time2str( [Stime] )
The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

    Sun, 06 Nov 1994 08:49:37 GMT
```

```
str2time( Sstr [, Szone] )
The str2time() function converts a string to machine time. It returns 'undef' if the format of $str is unrecognized, otherwise whatever the 'Time::Local' functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not ""GMT"" or numerical (like ""-0800"" or ""+0100""), then the 'Time::Zone' module must be installed in order to get the date recognized.

```
parse_date( $str )
This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year returned will not have the number 1900 subtracted from it and the $month numbers start with 1.

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned.
```

The function is able to parse the following formats:
"Thu Feb 3 17:03:55 GMT 1994" -- ctime(3) format
"Thu Feb 3 00:00:00 1994", -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700" -- common logfile format
"09 Feb 1994 22:23:32 GMT" -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT" -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT" -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29" -- zone is optional
"1994-02-03" -- only date
"1994-02-03T14:15:29" -- Use T as separator
"19940203T141529Z" -- ISO 8601 compact format
"19940203" -- only date

"08-Feb-94" -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994" -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994" -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)

"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date *before* current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.

\texttt{time2iso(\ [\$time] )}
\texttt{Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.}

\texttt{time2isoz(\ [\$time] )}
\texttt{Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.}

\texttt{SEE ALSO}
perlfunc, Time::Zone
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### 1.1593 go-autorest-date 0.2.0

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1.1594 libnlroute 3.2.29-0ubuntu3

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Tue, 16 Jan 2006 12:00:46 +0000.
The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging
of libnl1.

It was downloaded from https://github.com/thom311/libnl/releases

Upstream Author:
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include/netlink/xfrm/sa.h
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include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
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Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
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AKIYOSHI, Masamichi (akiyoshi)
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* He had maintained the VMS support on 2003-2004.

Muhammad Ali
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Minero Aoki (aamine)
* committer
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  * net/http, net/https
  * net/pop
  * net/smtp
  * racc
  * ripper
  * strscan

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* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
  * Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.

== B
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* documentation
* He wrote forwardable.rb

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* a patch for mkmf.rb

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* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

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Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

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* ruby_strtod is based on his paper.

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* committer

Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* patches for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

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* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

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Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

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* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

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* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tadf)
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* date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

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* ruby_strtod

Florian Gilcher
* documentation

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* He wrote benchmark.rb
* He is the maintainer of: 
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* open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

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* patch for ruby-mode.el's documentation.
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* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c
Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
* cmath.rb (1.9)
* complex.rb (1.8)
* e2mmap.rb
* forwardable.rb
* irb
* mathn
* matrix.rb
* mutex_m.rb
* rational.rb (1.8)
* sync.rb
* shell/*
* thwait.rb
* tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap
Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
* abbrev.rb
* generator (1.8)
* enumerator (1.8)
* set
* ipaddr.rb
* digest/*
* syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
  * a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
  * fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation
Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb
Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/aloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb
Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.
Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen
== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
  * ftools (1.8)
  * tmpdir
  * un
  * Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.
Keita Yamaguchi
  * patches for enum.c, parse.y
  * documentation

Hirokazu Yamamoto (ocean)
  * committer

Hirotaka Yoshioka
  * a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
  * a patch for io.c

Alexander Zavorine
  * committer
  * He is the maintainer for Symbian OS.

Chiyuan Zhang
  * a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
  * a patch for thread_pthread.c

Dan Zwell
  * a patch for net/pop

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include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regexec.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_jp.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
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enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
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enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
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enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
enc/windows_1251.c::

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* https://github.com/kkos/oniguruma
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A C-program for MT19937, with initialization improved 2002/2/10.  
Coded by Takuji Nishimura and Makoto Matsumoto.  
This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.  

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

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vsnprintf.c::

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L. Peter Deutsch
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(Arranged for libc by Todd C. Miller)
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1.1599 github.com/wavefronthq/wavefront-sdk-go 0.9.7

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procfs provides functions to retrieve system, kernel and process
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1.1617 golang-snappy 0.0.3

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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.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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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
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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
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reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

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

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

@end enumerate

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

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

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You may 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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goproperties - properties file decoder for Go

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

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

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    URL   string `json:"url,omitempty"`  
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package simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
        Value: types.KeyValue{
            Key: "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
        }},
    },
Key: "dvs",
Value: "vSphere Distributed Switch",
}

```go
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self = ref,
        Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
        }
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

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

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

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]

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

            body.Res = new(types.UpdateLicenseLabelResponse)

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

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

            return body
        }
    }

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

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

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

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

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

    return body
}

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

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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package migration

import "fmt"

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

def (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v"`, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated"  // deprecated, but still completely functional
    ignored = "ignored"  // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed"  // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported"  // the plugin/option is not supported by the migration tool

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

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `\<path\\>`
- Remote file format is `\<pod-name\\>:\<path\\>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c \<container-name\\>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c \<specific-container\\>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace\\>/`.

- `\<pod-namespace\\>/\<pod-name\\>:\<path\\>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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

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

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    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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------
The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue

--------

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SipHash24
---------

The file `Python/pyhash.c` contains Marek Majkowski’ implementation of Dan Bernstein’s SipHash24 algorithm. The contains the following note::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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------

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zlib
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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

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

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

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1.1656 url-parse-lax 3.0.0

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1.1659 python3-jinja2 2.10-1ubuntu0.18.04.1

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1.1660 semantic-version 2.8.5

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1.1661 taglibs-standard-spec 1.2.5

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The parts of the libtelnet that handle Kerberos.

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@heading Doug Rabson

GSS-API mechglue layer.

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Fortuna in libhcrypto

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vis.c in libbroken

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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)

author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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, for humouring me on.


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Windows support

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSSPool
  * 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

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* Bugfixes, Improvements and Test coverage

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  * Python 3 support

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

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

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

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

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

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

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

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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

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

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

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

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

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

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

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

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

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

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

* Ville Skytt <ville.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 <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

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

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### 1.1689 sysv-init 2.88dsf-59.10ubuntu1

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1690 libapt-inst 1.6.14

1.1690.1 Available under license:

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1.1692 prometheus-common 0.3.0

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1.1693 google-api-go-client 0.8.0

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1.1696 python-requests 2.26.0

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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2.2 and above     2.1.1     2001-now     PSF     yes

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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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Sockets
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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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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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<table>
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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
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11.2.8+incompatible

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1.1711 commons-compress 1.21

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU‘ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.1713 path-to-regexp 0.1.7

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1.1714 x-text v0.3.6

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The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.
OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.
The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the “JFIF” conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The “official” archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET'S archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
===============

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
=================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
This package was debianised by Steve McIntyre 
<stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001.
The maintainership was transfered in August 2003 to Andreas Barth
<aba@not.so.argh.org>, first as cooperative maintainership and sponsored by Steve.

Packaging and keeping the package current is not simple, for details see README.Debian. We consider http://netpbm.alioth.debian.org/ the technical upstream, and this release can be exported out of alioth by 
cvs -z3 -d:pserver:anonymous@ecs.alioth.debian.org:/cvsroot/netpbm export 

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==========

Netpbm has a very complicated licensing setup, as it is a collection of hundreds of small utility programs, each with an individual copyright/license. From inspection of the source and documentation in the package, I believe the following programs are DFSG-free. They have a variety of licenses, which I have summarised below for convenience.

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The core libpng library code all also seems to follow this license.

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Programs actually included in this package:

411toppm:  (B) 2001  Steve Allen <sla@alumni.caltech.edu>
anytopnm:  (A) 1991  Jef Poskanzer
asciitopgm:  (A) 1989  Wilson H. Bent, Jr
atktopbm:  (A) 1991  Bill Janssen
bioradtopgm:  (A) 1993  Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm:  (A) 1992  David W. Sanderson (as bmptoppm)
brushtopbm:  (A) 1988  Jef Poskanzer
cnuwmtopbm:  (A) 1989  Jef Poskanzer
eyuvtoppm:  (B) 1995  The Regents of the University of California
fiascotopnm:  (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm:  (A) 1989  Jef Poskanzer
fstopgm:  (A) 1989  Jef Poskanzer
g3topbm:  (A) 1989  Paul Haeberli <paul@manraysgi.com>
gentopnm:  (A) 1988  Diomidis D. Spinellis
giftopnm:  (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm:  (A) 1990  Stephen P. Lesniewski
hipstopgm:  (A) 1989  Jef Poskanzer
icontopbm:  (A) 1988  Jef Poskanzer
ilbmtoppm:  (A) 1989  Jef Poskanzer
imgtoppm: (A) 1989 Jef Poskanzer
jpegtopnm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leafoppm: (A) 1994 Bill O'Donnell
lispmtopgm: (A) 1988 Jef Poskanzer
macptopbm: (A) 1988 Jef Poskanzer
mdatopbm: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
mgrtopbm: (A) 1989 Jef Poskanzer
mtvtoppm: (A) 1989 Jef Poskanzer
neotoppm: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut: (A) 1989 Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamfile: (A) 1991 Jef Poskanzer
pamfile: (A) 1991 Jef Poskanzer
pamtil: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pamstack (H1) 2002 Bryan Henderson
pamstretch (C) 1998,2000 Russell Marks (as pnminterp)
pamstretch-gen (H1) 1999 Russell Marks (as pnminterp-gen)
pbmclea: (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife: (A) 1988-1991 Jef Poskanzer
pbmmod: (A) 1988 Jef Poskanzer
pbmmask: (A) 1989-1991 Jef Poskanzer
pbmpage: (C) 1998 Tim Norman
pbmpscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmreduce: (A) 1989 Jef Poskanzer
pbmtextps: (A) 2002 James McCann
pbmtext: (A) 1991 Jef Poskanzer
pbmto10x: (A) 1990-1994 Ken Yap
pbmtoascii: (A) 1988-1992 Jef Poskanzer
pbmtoatk: (A) 1991 Bill Janssen
pbmtoicon: (A) 1988 Jef Poskanzer
pbmtoj: (A) 1988 Jef Poskanzer
pbmtoicons: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmtog3: (A) 1989 Paul Haebeleri <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtojgon: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtocmuwm: (A) 1989 Jef Poskanzer
pbmtoepsi: (A) 1988 Jef Poskanzer
pbmtoepson: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmtog3: (A) 1989 Paul Haebeleri <paul@manray.sgi.com>
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pbmtog3: (A) 1989 Paul Haebeleri <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtojgon: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtocmuwm: (A) 1989 Jef Poskanzer
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pbmtog3: (A) 1989 Paul Haebeleri <paul@manray.sgi.com>
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pbmtojgon: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'

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pbmtoptx: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmto10bm: (A) 1988 Jef Poskanzer
pbmtoxbm: (A) 1988 Jef Poskanzer
pbmtobybm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pbmtozinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbnupc: (A) 1988 Jef Poskanzer
pcxtoppm: (A) 1990 Michael Davidson
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmedge: (A) 1989 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmrand: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolispm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtoxbm: (A) 1989 Jef Poskanzer
pgmtoppm: (A) 1991 Jef Poskanzer
pi1toppm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
pjtoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtoppm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willemschaik.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap: (A) 1989, 1991 Jef Poskanzer
pnmct: (A) 1989, 1991 Jef Poskanzer
pnmmargin: (A) 2001 Bryan Henderson
pnmcrop: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdensity: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989 Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhistedge: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmsize: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex: (A) 1991 Jef Poskanzer
pnminvert: (A) 1989 Jef Poskanzer
pnmmargin: (A) 1991 Jef Poskanzer
pnmmontage: (A) 2000 Ben Olmstead
pnmnlfilt: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pmnnorm:  (A) 1989, 1991 Jef Poskanzer (as pgmnorm)
  (A) Michael Mauldin (fbnorm-filter in "Fuzzy Pixmap")
  (A) Wilson H. Bent, Jr. (whb@usc.edu) (as ppmnorm)
  (A) 2002 Bryan Henderson
pnmpad:  (A) 1989 Jef Poskanzer
  (A) 1990 Angus Duggan
  (A) 2002 Martin van Beilen
pnmpaste: (A) 1989 Jef Poskanzer
pnmpspsnr: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmquant:  (H1) 2002 Bryan Henderson
pnmremap:  (A) 1989, 1991 Jef Poskanzer (as pnmquant)
  (A) 2001 Bryan Henderson
pnmrotate: (A) 1989-1991 Jef Poskanzer
pnmsscale:  (A) 1989-1991 Jef Poskanzer
pnmscalefixed: (A) 1989-1991 Jef Poskanzer
pnmshs:  (A) 1989-1991 Jef Poskanzer
pnmssmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit:  (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile:  (A) 1989 Jef Poskanzer
pnmtodiff: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofio:  (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtfif:  (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtiop:  (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtopalm:  (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtopplain: (A) 1994 Jef Poskanzer
pnmtopng:  (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaim.com>
pnmtops:  (A) 1989 Jef Poskanzer
pnmtorast: (A) 1989-1991 Jef Poskanzer
pnmtorle:  (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi:  (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir:  (A) 1991 Marvin Landis
pnmtotiff:  (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotifcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtowxd:  (A) 1989-1991 Jef Poskanzer
ppm3d:  (A) 1989 Jef Poskanzer
ppmbrighten:  (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange:  (A) 1991 Wilson H. Bent, Jr
ppmcie:  (H) 1995 John Walker <kelvin@fourmilab.ch>
pmmcolormask:  (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmcolors:  (H1) 2001 Bryan Henderson
ppmdim:  (A) 1993 Frank Neumann
ppmdist:  (A) 1993 Dan Stromberg
ppmdither:  (A) 1991 Christos Zoulas
ppmfade:  (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pmmflash:  (A) 1993 Frank Neumann
ppmforge:  (H) 1989 John Walker <kelvin@autodesk.com>
pnmhist:  (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmpat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
ppmrainbow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
ppmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
ppmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoclr: (A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
ppmtolj: (A) 2000 Jef Poskanzer
ppmtomap: (A) 1989 Jef Poskanzer
ppmtomitsu: (A) 1992-1993 S.Petra Zeidler
ppmtompeg: (B) 1995 The Regents of the University of California
ppmtoneo: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopict: (A) 1990 Jef Poskanzer
ppmtopj: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
ppmtor: (A) 1991 Jef Poskanzer
ppmtorbg3: (A) 1991 Jef Poskanzer
ppmtosixel: (A) 1991 Rick Vinci
ppmtotga: (A) 1989-1991 Mark Shand and Jef Poskanzer
ppmtounit: (A) 1990 Mark W. Snitily, Jef Poskanzer
ppmtoutil: (A) 1990 Lee Benfield <lee@recoil.org>
ppmtov: (A) 1990 Mark W. Snitily
ppmtov: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtov: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
psdtopgm: (A) 1989 Jef Poskanzer
psstopnm: (I) 1992 Smithsonian Astrophysical Observatory, Alberto Accomazzi
qttoppm: (A) 1989 Jef Poskanzer
rasttoppm: (A) 1989-1991 Jef Poskanzer
rawtopgm: (A) 1989 Jef Poskanzer
rawtopppm: (A) 1991 Jef Poskanzer
rgb3toppm: (A) 1991 Jef Poskanzer
rletopnm: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm: (A) 1998 John Walker
sgitopnm:      (A) 1994     Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm:     (A) 1991     Marvin Landis
sldtoppm:      (H) 1991     John Walker <kelvin@autodesk.com>
spectoppm:     (A) 1991     Jef Poskanzer and Steve Belczyk
sputoppm:      (A) 1991     Jef Poskanzer and Steve Belczyk	
tiffopnm:      (A) 1990     Sun Microsystems, Inc, Jef Poskanzer
tgtoppm:       (A) 1989     Jef Poskanzer
tinkjettoppm:  (A) 2001     W. Eric Norum <eric.norum@usask.ca>
wbmptopbm:     (A) 1999     Terje Sannum <terje@looplab.com>
winicontoppm:  (A) 2000     Lee Benfield <lee@recoil.org>
xbmtopbm:      (A) 1988     Jef Poskanzer
ximtoppm:      (A) 1991     Jef Poskanzer
xpmtoppm:      (A) 1991     Jef Poskanzer
xvminitoppm:   (A) 1993     Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm:      (A) 1989-1991 Jef Poskanzer
ybmtopbm:      (A) 1988     Jamie Zawinski and Jef Poskanzer
yuvspilittoppm: (A) 1993     Marcel Wijkstra <wijkstra@fwi.uva.nl>
zeisstopnm:    (A) 1993     Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:
[ bmptoppm:     (A) 1992     David W. Sanderson ]
[ gemtopbm:     (A) 1988     Diomidis D. Spinellis ]
[ pgmnorm:      (A) 1989-1991 Jef Poskanzer ]
[ pmninterp:    (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ pmninterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ pmnnoraw:     (A) 1989-1991 Jef Poskanzer ]
[ pictoppm:     (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ ppmsvgalib:   (H1) 2002     Bryan Henderson [never included in debian]]

Not distributed due to patent issues:
[ jbigtoppm:    (C) 2000     Markus Kuhn <mkuhn@acm.org> ]
[ pmntojbig:    (C) 2000     Markus Kuhn <mkuhn@acm.org> ]
filter to create GIFs - patent restricted. (http://www.unisys.com/unisys/lzw/
[ ppmtogif:     (A) 1989     Jef Poskanzer ]

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@enumerate
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@end page
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1.1737 cncf-udpa-go 0.0.0-20200629203442-efcf912fb354

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1.1738 nginx 1.14.0-0ubuntu1.9

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1.1739 ruby-net-telnet 0.1.1-2

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1.1740 sprintf-js 1.0.3

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1.1741 liblwp-mediatypes-perl 6.02-1

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#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# MIME type (lowercased)Extensions
#=======================================================================================
# application/1d-interleaved-parityfec
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fits
application/font-tdpfr
# application/framework-attributes+xml
# application/h224
# application/held+xml
# application/http
application/hyperstudiosk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
# application/iotp
application/ipfix
# application/ipp
# application/isup
application/java-archive
application/java-serialized-object
application/java-vm
application/javascript
application/json
# application/kpml-request+xml
# application/kpml-response+xml
application/lost+xml
application/mac-binhex40
application/mac-compactpro
# application/macwriteii
application/mads+xml
application/marc
application/marcxml+xml
application/mathematica
application/mathml+xml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smilsml
application/soap+fastinfoset
application/soap+xml
application/sparql-query
application/sparql-results+xml
application/sp IMS
application/srgs
application/srgs+xml
application/sru+xml
application/ssml+xml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update
application/tamp-community-update-confirm
application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml
application/thraud+xml
application/timestamped-data
application/timestamp-reply
application/timestamped-dataset
application/tve-trigger
application/ulpfec
application/vebmi
application/vvidence.scriptfile
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.pic-bw-largeplb
application/vnd.3gpp.pic-bw-smallplb
application/vnd.3gpp.pic-bw-varplb
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application/vnd.accupac.acutc
application/vnd.adobe.air-application-installer-package+xml
application/yin+xml
application/zip
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
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# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
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audio/oggoga ogg spx
# audio/parityfec
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# audio/telephone-event
# audio/tone
# audio/uemclip
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# audio/vnd.4sb
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chemical/x-cml
chemical/x-csml
# chemical/x-pdb
chemical/x-xyz
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image/cgm
# image/example
# image/fits
image/g3fax
image/gif
image/ief
# image/jp2
image/jpeg
image/jpeg
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image/vnd.adobe.photoshop
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# multipart/voice-message
# text/1d-interleaved-parityfec
text/calendars ifb
text/csscss
text/csvcsv
# text/directory
# text/dns
# text/ecmascript
# text/enriched
# text/example
text/html
txt
# text/javascript
# text/n3n3
# text/parityfec
text/plaintxt
text/conf def list log in
# text/prs.fallenstein.rst
text/prs.lines.tag
text/vnd.radisys.msml-basic-layout
# text/red
# text/rfc822-headers
text/richtextrtx
# text/rtf
# text/tp-enc-aescm128
# text/rtx
text/sgml
# text/tab-separated-values
text/troff tr roff man me ms
text/turtle
# text/ulpfec
text/uri-listuris urls
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<td># video/celb</td>
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</table>
NAME

LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS

use LWP::MediaTypes qw(guess_media_type);
$type = guess_media_type("/tmp/foo.gif");

DESCRIPTION

This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the F<media.types> file. If the F<~/.media.types> file exists it is used instead. For backwards compatibility we will also look for F<~/.mime.types>.

The following functions are exported by default:
=over 4

=item guess_media_type( $filename )

=item guess_media_type( $uri )

=item guess_media_type( $filename_or_uri, $header_to_modify )

This function tries to guess media type and encoding for a file or a URI.
It returns the content type, which is a string like C<"text/html">.
In array context it also returns any content encodings applied (in the
order used to encode the file). You can pass a URI object
reference, instead of the file name.

If the type can not be deduced from looking at the file name,
then guess_media_type() will let the C<-T> Perl operator take a look.
If this works (and C<-T> returns a TRUE value) then we return
I<text/plain> as the type, otherwise we return
I<application/octet-stream> as the type.

The optional second argument should be a reference to a HTTP::Headers
object or any object that implements the $obj->header method in a
similar way. When it is present the values of the
'Content-Type' and 'Content-Encoding' will be set for this header.

=item media_suffix( $type, ... )

This function will return all suffixes that can be used to denote the
specified media type(s). Wildcard types can be used. In a scalar
context it will return the first suffix found. Examples:

    @suffixes = media_suffix('image/*', 'audio/basic');
    $suffix = media_suffix('text/html');

=back

The following functions are only exported by explicit request:

=over 4

=item add_type( $type, @exts )

Associate a list of file extensions with the given media type.
Example:

    add_type("x-world/x-vrml" => qw(wrl vrml));

=item add_encoding( $type, @ext )
Associate a list of file extensions with an encoding type.
Example:

```
add_encoding("x-gzip" => "gz");
```

Parse media types files and add the type mappings found there.
Example:

```
read_media_types("conf/mime.types");
```

NAME
LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS
```
use LWP::MediaTypes qw(guess_media_type);
$type = guess_media_type("/tmp/foo.gif");
```

DESCRIPTION
This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the media.types file. If the ~/.media.types file exists it is used instead. For backwards compatibility we will also look for ~/.mime.types.

The following functions are exported by default:

```
guess_media_type( $filename )
guess_media_type( $uri )
guess_media_type( $filename_or_uri, $header_to_modify )
```

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like
``text/html``. In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then `guess_media_type()` will let the `-T` Perl operator take a look. If this works (and `-T` returns a TRUE value) then we return *text/plain* as the type, otherwise we return *application/octet-stream* as the type.

The optional second argument should be a reference to a HTTP::Headers object or any object that implements the $obj->header method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

``
media_suffix( $type, ... )
``

This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:

``
add_type( $type, @exts )
``

Associate a list of file extensions with the given media type. Example:

```perl
add_type("x-world/x-vrml" => qw(wrl vrml));
```

``
add_encoding( $type, @ext )
``

Associate a list of file extensions with an encoding type. Example:

```perl
add_encoding("x-gzip" => "gz");
```

``
read_media_types( @files )
``

Parse media types files and add the type mappings found there. Example:

```perl
read_media_types("conf/mime.types");
```

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Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/README
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/META.yml

1.1742 python3-astroid 1.6.0-1
1.1742.1 Available under license:

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Version 2.1, February 1999

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- gopkg.in/yaml.v1
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mgo - MongoDB driver for Go

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=====

Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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package model

import (    "fmt"    "sort"    "strings"

core "github.com/envoyproxy/go-control-plane/envoy/api/v2/core"    route "github.com/envoyproxy/go-control-plane/envoy/api/v2/route"    envoy_rbac "github.com/envoyproxy/go-control-plane/envoy/config/rbac/v2"    envoy_matcher "github.com/envoyproxy/go-control-plane/envoy/config/type/matcher"

    "istio.io/istio/pilot/pkg/security/authz/model/matcher"
)

type Permission struct {    Services []string // For backward-compatible only.    Hosts []string    NotHosts []string    Paths []string    NotPaths []string    Methods []string    NotMethods []string    Ports []string    NotPorts []string    Constraints []KeyValues    AllowAll bool    v1beta1 bool
}

// Match returns True if the calling service's attributes and/or labels match to the ServiceRole constraints. func (permission *Permission) Match(service *ServiceMetadata) bool {    if permission == nil {        return true

}
// Check if the service name is matched.
if len(permission.Services) != 0 {
    if !stringMatch(service.Name, permission.Services) {
        return false
    }
}

// Check if the constraints are matched.
for _, constraint := range permission.Constraints {
    for key, values := range constraint {
        var constraintValue string
        var present bool
        switch {
        case strings.HasPrefix(key, attrDestLabel):
            label, err := extractNameInBrackets(strings.TrimPrefix(key, attrDestLabel))
            if err != nil {
                rbacLog.Errorf("ignored invalid %s: %v", attrDestLabel, err)
                continue
            }
            constraintValue, present = service.Labels[label]
        case key == attrDestName || key == attrDestNamespace || key == attrDestUser:
            constraintValue, present = service.Attributes[key]
        default:
            continue
        }
        // The constraint is not matched if any of the follow condition is true:
        // a) the constraint is specified but not found in the ServiceMetadata;
        // b) the constraint value is not matched to the actual value;
        if !present || !stringMatch(constraintValue, values.Values) {
            return false
        }
    }
}

// ValidateForTCP checks if the permission is valid for TCP filter. A permission is not valid for TCP
// filter if it includes any HTTP-only fields, e.g. hosts, paths, etc.
func (permission *Permission) ValidateForTCP(forTCP bool) error {
    if permission == nil || !forTCP {
        return nil
    }

    if len(permission.Hosts) != 0 {
        return fmt.Errorf("hosts(%v)", permission.Hosts)
    }
if len(permission.NotHosts) != 0 {
    return fmt.Errorf("hosts(%v)", permission.NotHosts)
}
if len(permission.Paths) != 0 {
    return fmt.Errorf("paths(%v)", permission.Paths)
}
if len(permission.NotPaths) != 0 {
    return fmt.Errorf("not_paths(%v)", permission.NotPaths)
}
if len(permission.Methods) != 0 {
    return fmt.Errorf("methods(%v)", permission.Methods)
}
if len(permission.NotMethods) != 0 {
    return fmt.Errorf("not_methods(%v)", permission.NotMethods)
}
for _, constraint := range permission.Constraints {
    for k := range constraint {
        if !validConditionForTCP(k) {
            return fmt.Errorf("constraint(%v)", constraint)
        }
    }
}
return nil

func validConditionForTCP(k string) bool {
    return !strings.HasPrefix(k, attrRequestHeader)
}

// Generate generates the RBAC filter config for the given permission.
// When the policy uses HTTP fields for TCP filter (forTCPFilter is true):
// - If it's allow policy (forDenyPolicy is false), returns nil so that the allow policy is ignored to avoid granting more
//   permissions in this case.
// - If it's deny policy (forDenyPolicy is true), returns a config that only includes the TCP fields (e.g. port) from the
//   policy. This makes sure
//   the generated deny policy is more restrictive so that it never grants extra permission in this case.
func (permission *Permission) Generate(forTCPFilter, forDenyPolicy bool) (*envoy_rbac.Permission, error) {
    if permission == nil {
        return nil, nil
    }
    onlyTCPFields := false
    if err := permission.ValidateForTCP(forTCPFilter); err != nil {
        if !forDenyPolicy {
            return nil, err
        }
    }
// Set onlyTCPFields to true if the deny policy is using HTTP fields so that
// we generate a deny policy with only TCP fields.
onlyTCPFields = true

pg := permissionGenerator(

if permission.AllowAll {
    pg.append(permissionAny())
    return pg.andPermissions(), nil
}

if !onlyTCPFields {
    if len(permission.Hosts) > 0 {
        permission := permission.forKeyValues(hostHeader, permission.Hosts)
        pg.append(permission)
    }

    if len(permission.NotHosts) > 0 {
        permission := permission.forKeyValues(hostHeader, permission.NotHosts)
        pg.append(permissionNot(permission))
    }

    if len(permission.Methods) > 0 {
        permission := permission.forKeyValues(methodHeader, permission.Methods)
        pg.append(permission)
    }

    if len(permission.NotMethods) > 0 {
        permission := permission.forKeyValues(methodHeader, permission.NotMethods)
        pg.append(permissionNot(permission))
    }

    if len(permission.Paths) > 0 {
        permission := permission.forKeyValues(pathMatcher, permission.Paths)
        pg.append(permission)
    }

    if len(permission.NotPaths) > 0 {
        permission := permission.forKeyValues(pathMatcher, permission.NotPaths)
        pg.append(permissionNot(permission))
    }

    if len(permission.Ports) > 0 {
        permission := permission.forKeyValues(attrDestPort, permission.Ports)
        pg.append(permission)
    }

    if len(permission.NotP
if len(permission.NotPorts) > 0 {
    permission := permission.forKeyValues(attrDestPort, permission.NotPorts)
    pg.append(permissionNot(permission))
}

if len(permission.Constraints) > 0 {
    // Constraints are matched with AND semantics, it's invalid if 2 constraints have the same
    // key and this should already be caught by validation.
    for _, constraint := range permission.Constraints {
        var keys []string
        for key := range constraint {
            if !onlyTCPFields || validConditionForTCP(key) {
                keys = append(keys, key)
            }
        }
        sort.Strings(keys)
        for _, k := range keys {
            if len(constraint[k].Values) > 0 {
                perm := permission.forKeyValues(k, constraint[k].Values)
                pg.append(perm)
            }
            if len(constraint[k].NotValues) > 0 {
                perm := permission.forKeyValues(k, constraint[k].NotValues)
                pg.append(permissionNot(perm))
            }
        }
    }
    if pg.isEmpty() {
        // None of above permission satisfied means the permission applies to all paths/methods/constraints.
        pg.append(permissionAny())
    }
}

return pg.andPermissions(), nil

// isSupportedPermission returns true if the key is supported to be used in permission.
func isSupportedPermission(key string) bool {
    switch {
    case key == attrDestIP:
    case key == attrDestPort:
    case key == attrConnSNI:
    case strings.HasPrefix(key, "experimental.envoy.filters.") && isKeyBinary(key):
        default:
            return false
    }
return true
}

// forKeyValues converts a key-values pair to an envoy RBAC permission. The key specify the
// type of the permission (e.g. destination IP, header, SNI, etc.), the values specify the allowed
// value of the key, multiple values are ORed together.
func (permission *Permission) forKeyValues(key string, values []string) *envoy_rbac.Permission {
    var converter func(string) (*envoy_rbac.Permission, error)
    switch {
    case key == attrDestIP:
        converter = func(v string) (*envoy_rbac.Permission, error) {
            cidr, err := matcher.CidrRange(v)
            if err != nil {
                return nil, err
            }
            return permissionDestinationIP(cidr), nil
        }
    case key == attrDestPort:
        converter = func(v string) (*envoy_rbac.Permission, error) {
            portValue, err := convertToPort(v)
            if err != nil {
                return nil, err
            }
            return permissionDestinationPort(portValue), nil
        }
    case key == pathMatcher,
        key == methodHeader || key == hostHeader:
    case strings.HasPrefix(key, attrRequestHeader):
        header, err := extractNameInBrackets(strings.TrimPrefix(key, attrRequestHeader))
        if err != nil {
            rbacLog.Errorf("ignored invalid %s: %v", attrRequestHeader, err)
            return nil
        }
        converter = func(v string) (*envoy_rbac.Permission, error) {
            m := matcher.HeaderMatcher(header, v)
            return permissionHeader(m), nil
        }
    case key == attrConnSNI:
        converter = func(v string) (*envoy_rbac.Permission, error) {
            m := matcher.StringMatcher(v, permission.v1beta1)
            return permissionSNI(m), nil
        }
    }
    return converter(v)
}
return permissionRequestedServerName(m), nil
}
case strings.HasPrefix(key, "experimental.envoy.filters.") && isKeyBinary(key):
// Split key of format experimental.envoy.filters.a.b[c] to [envoy.filters.a,b, c].
parts := strings.SplitN(strings.TrimSuffix(strings.TrimPrefix(key, "experimental."), "]"), "]", 2)
converter = func(v string) (*envoy_rbac.Permission, error) {
// If value is of format [v], create a list matcher.
// Else, if value is of format v, create a string matcher.
var m *envoy_matcher.MetadataMatcher
if strings.HasPrefix(v, "]") && strings.HasSuffix(v, "]") {
    m = matcher.MetadataListMatcher(parts[0], parts[1:], strings.Trim(v, "]"), permission.v1beta1)
} else {
    m = matcher.MetadataStringMatcher(parts[0], parts[1], matcher.StringMatcher(v, permission.v1beta1))
}
return permissionMetadata(m), nil
}
default:
if !found(key, []string{attrDestName, attrDestNamespace, attrDestUser}) &&
!strings.HasPrefix(key, attrDestLabel) {
    // The attribute is neither matched here nor in previous stage, this means it's something we
    // don't understand, most likely a user typo.
    rbacLog.Errorf("ignored unsupported constraint: %s", key)
    return nil
}

pg := permissionGenerator{}
for _, v := range values {
    if permission, err := converter(v); err != nil {
        rbacLog.Errorf("ignored invalid constraint value: %v", err)
    } else {
        pg.append(permission)
    }
}
return pg.orPermissions()
}

type permissionGenerator struct {
permissions []*envoy_rbac.Permission
}

func (pg *permissionGenerator) isEmpty() bool {
    return len(pg.permissions) == 0
}

func (pg *permissionGenerator) append(permission *envoy_rbac.Permission) {
    if permission == nil {
        return
    }
    pg.permissions = append(pg.permissions, permission)
func (pg *permissionGenerator) andPermissions() *envoy_rbac.Permission {
    if pg.isEmpty() {
        return nil
    }

    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_AndRules{
            AndRules: &envoy_rbac.Permission_Set{
                Rules: pg.permissions,
            },
        },
    }
}

func (pg *permissionGenerator) orPermissions() *envoy_rbac.Permission {
    if pg.isEmpty() {
        return nil
    }

    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_OrRules{
            OrRules: &envoy_rbac.Permission_Set{
                Rules: pg.permissions,
            },
        },
    }
}

func permissionAny() *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Any{
            Any: true,
        },
    }
}

func permissionNot(permission *envoy_rbac.Permission) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_NotRule{
            NotRule: permission,
        },
    }
}
func permissionDestinationIP(cidr *core.CidrRange) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_DestinationIp{
            DestinationIp: cidr,
        },
    }
}

func permissionDestinationPort(port uint32) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_DestinationPort{
            DestinationPort: port,
        },
    }
}

func permissionRequestedServerName(name *envoy_matcher.StringMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_RequestedServerName{
            RequestedServerName: name,
        },
    }
}

func permissionMetadata(metadata *envoy_matcher.MetadataMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Metadata{
            Metadata: metadata,
        },
    }
}

func permissionHeader(header *route.HeaderMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Header{
            Header: header,
        },
    }
}

func permissionPath(path *envoy_matcher.PathMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_UrlPath{
            UrlPath: path,
        },
    }
}
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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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1.1759 go-openapi-swag 0.19.12

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1.1762 logrus 1.6.0

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1.1763 p11-kit 0.23.9-2ubuntu0.1

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1.1766 beevik-ntp 0.3.0

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1.1767 os-tmpdir 1.0.2

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1.1768 appdirs 1.4.3

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```markdown
# AssertionError ![Build Status](https://travis-ci.org/chaijs/assertion-error.png?branch=master)

> Error constructor for test and validation frameworks that implements standardized AssertionError specification.

## Installation

### Node.js

`assertion-error` is available on [npm](http://npmjs.org).

$ npm install assertion-error

### Component

`assertion-error` is available as a [component](https://github.com/component/component).

$ component install chaijs/assertion-error

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1.1776 go-runewidth 0.0.3

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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_SO_NAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SO_OPTIONS= -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) $< \n | sed \"s/($*).o[ :]*/\1.o $@ : /g\" > $@; \n | -s $@ \] || rm -f $@"

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

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1.1785 glibc 1.2.11

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1.1791 github.com/rubenv/sql-migrate 0.0.0-20200212082348-64f95ea68aa3

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1.1792 go-http-dialer 0.0.0-20161116154839-378f744fb2b8

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

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

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1.1800 spdx-exceptions 2.3.0

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1.1801 python-dateutil 2.8.2

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1.1802 ruby-power-assert 0.3.0 1
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1.1803 aws-sdk-go-v2 1.3.2
1.1803.1 Available under license:
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
if params == nil {  
params = &DeleteLicenseInput{  }
  }

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {  
return nil, err
  }

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
type DeleteLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string
}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
// * Issuer
Filters [][]types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}
package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {
    // License beneficiary.
    // // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    // }
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
NodeId *string
}

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = awsMiddleware.OpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsMiddleware.RegisterServiceMetadata {

return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, 
    addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
}
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    return nil
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
        addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
//
//-- * KeyFingerprint
//--
//-- * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}

type ListLicensesOutput struct {

// License details,
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {
    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
}
func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }...
}
result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
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```

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```
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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.1809 libutempter 1.1.6 3
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1.1813 python-pkg-resources 39.0.1 2

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* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/lib/protocol/http2/flow_controlled.rb

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* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/protocol/http2/goaway_frame_spec.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/lib/protocol/http2.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/protocol/http2/goaway_frame.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/lib/protocol/http2/ping_frame.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/protocol/http2/ping_frame_spec.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/protocol/http2/headers_frame_spec.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/protocol/http2/connection_spec.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-protocol-http2-0cba0e8/spec/spec_helper.rb

* /opt/cola/permits/1152135404_1618097512.26/0/socketry-protocol-http2-v0-14-2-0-g3d76726-tar-gz/socketry-
# Protocol::HTTP2

Provides a low-level implementation of the HTTP/2 protocol.


## Installation

Add this line to your application's Gemfile:

```ruby
gem 'protocol-http2'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install protocol-http2
```

## Usage

Here is a basic HTTP/2 client:
require 'async'
require 'async/io/stream'
require 'async/http/endpoint'
require 'protocol/http2/client'

Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.google.com/search?q=kittens")

  peer = endpoint.connect

  puts "Connected to #{peer.inspect}"

  # IO Buffering...
  stream = Async::IO::Stream.new(peer)

  framer = Protocol::HTTP2::Framer.new(stream)
  client = Protocol::HTTP2::Client.new(framer)

  puts "Sending connection preface..."
  client.send_connection_preface

  puts "Creating stream..."
  stream = client.create_stream

  headers = [
    [':scheme', endpoint.scheme],
    [':method', "GET"],
    [':authority', "www.google.com"],
    [':path', endpoint.path],
    ['accept', "/*/*"],
  ]

  puts "Sending request on stream id=#{stream.id} state=#{stream.state}..."
  stream.send_headers(nil, headers, Protocol::HTTP2::END_STREAM)

  $count = 0

  def stream.process_headers(frame)
    headers = super
    puts "Got response headers: #{headers} (#{frame.end_stream?})"
  end

  def stream.receive_data(frame)
    data = super
  end

```
$count += data.scan(/kittens/).count

puts "Got response data: #{data.bytesize}"
end

until stream.closed?
  frame = client.read_frame
  end

puts "Got $count kittens!"

puts "Closing client..."
client.close
end
```

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)  
3. Commit your changes (`git commit -am 'Add some feature'`)  
4. Push to the branch (`git push origin my-new-feature`)  
5. Create new Pull Request

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1.1815 libiniparser 4.9.0-3.el7

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1.1816 libomp5 5.0.1-1

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/*******************************************************************************/

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$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp $
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/******************************************************************************* /

Found in path(s):
* /opt/cola/permits/1112082522_1607034672.43/0/stringio-0-0-1-1-gem/data-tar-gz/stringio.c

1.1820 go-openapi-spec 0.19.2
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func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

// License information for the exposed API.
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http-proxy-agent

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

### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out [`node-https-proxy-agent`](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

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

Install with `npm`:

```bash
$ npm install http-proxy-agent
```

Example

-------

```js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
```
```javascript
console.log(""response" event!", res.headers);
res.pipe(process.stdout);
```
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1834 go-shutil 0.0.0-20140729215957-bcacb06fcaee

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1.1835 wheel 0.37.0

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1.1837 bridgeutils 1.5 15ubuntu1

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The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

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1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all
implementations will accept these as conforming JSON texts.

\[
\text{JSON-text} = \text{ws value ws}
\]

These are the six structural characters:

\[
\begin{align*}
\text{begin-array} & = \text{ws } %x5B \text{ ws} ; \{ \text{ left square bracket} \\
\text{begin-object} & = \text{ws } %x7B \text{ ws} ; \{ \text{ left curly bracket} \\
\text{end-array} & = \text{ws } %x5D \text{ ws} ; \} \text{ right square bracket} \\
\text{end-object} & = \text{ws } %x7D \text{ ws} ; \} \text{ right curly bracket} \\
\text{name-separator} & = \text{ws } %x3A \text{ ws} ; : \text{ colon} \\
\text{value-separator} & = \text{ws } %x2C \text{ ws} ; , \text{ comma}
\end{align*}
\]

Insignificant whitespace is allowed before or after any of the six structural characters.

\[
\text{ws} = *( \text{Space} \text{ Horizontal tab} \text{ Line feed or New line} \text{ Carriage return} )
\]

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

\[
\begin{align*}
\text{value} & = \text{false} / \text{null} / \text{true} / \text{object} / \text{array} / \text{number} / \text{string} \\
\text{false} & = %x66.61.6c.73.65 ; \text{false} \\
\text{null} & = %x6e.75.6c.6c ; \text{null} \\
\text{true} & = %x74.72.75.65 ; \text{true}
\end{align*}
\]
4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

\[
\text{object} = \text{begin-object} \ [ \ \text{member} * ( \ \text{value-separator} \ \text{member} ) \ ] \\
\text{end-object}
\]

\[
\text{member} = \text{string} \ \text{name-separator} \ \text{value}
\]

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

\[
\text{array} = \text{begin-array} \ [ \ \text{value} * ( \ \text{value-separator} \ \text{value} ) \ ] \text{end-array}
\]

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using
decimal digits. It contains an integer component that may be
prefixed with an optional minus sign, which may be followed by a
fraction part and/or an exponent part. Leading zeros are not
allowed.

A fraction part is a decimal point followed by one or more digits.

number = [ minus ] int [ frac ] [ exp ]
decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E
exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT
int = zero / ( digit1-9 *DIGIT )
minus = %x2D ; -
plus = %x2B ; +
zero = %x30 ; 0

This specification allows implementations to set limits on the range
and precision of numbers accepted. Since software that implements
IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is
generally available and widely used, good interoperability can be
achieved by implementations that expect no more precision or range
than these provide, in the sense that implementations will
approximate JSON numbers within the expected precision. A JSON
number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \[-(2**53)+1, (2**53)-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A through F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as \\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string
containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark

char = unescaped / escape ( %x22 / ; " quotation mark U+0022 %x5C / ; \ reverse solidus U+005C %x2F / ; / solidus U+002F %x62 / ; b backspace U+0008 %x66 / ; f form feed U+000C %x6E / ; n line feed U+000A %x72 / ; r carriage return U+000D %x74 / ; t tab U+0009 %x75 4HEXDIG ) ; uXXXX U+XXXX

escape = %x5C ; \n
quotation-mark = %x22 ; "

unescaped = %x20-21 / %x23-5B / %x5D-10FFFF
```

8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters
When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\"b" and "a\u005Cb" are not equal.
10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.
13. Examples

This is a JSON object:

```
{
    "Image": {
        "Width": 800,
        "Height": 600,
        "Title": "View from 15th Floor",
        "Thumbnail": {
            "Url": "http://www.example.com/image/481989943",
            "Height": 125,
            "Width": 100
        },
        "Animated": false,
        "IDs": [116, 943, 234, 38793]
    }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[{
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
},
{
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": "",
    "City": "SUNNYVALE",
    "State": "CA",
```
Here are three small JSON texts containing only values:

"Hello world!"

42

true

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References

Edition 5.1™, Standard ECMA-262, June 2011,  
<http://www.ecma-international.org/publications/standards/ 
Ecma-262.htm>.

Standard ECMA-404, October 2013,  
<http://www.ecma-international.org/publications/standards/ 
Ecma-404.htm>.

[Err3607] RFC Errata, Errata ID 3607, RFC 3607,  

Bray Standards Track [Page 13]  
RFC 7159 JSON March 2014

[Err607] RFC Errata, Errata ID 607, RFC 607,  

[RFC4627] Crockford, D., "The application/json Media Type for 
JavaScript Object Notation (JSON)", RFC 4627, July 2006.
Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
o Clarified the absence of a requirement that values in an array be of the same JSON type.

o Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".

o Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.

o Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.

o Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

o Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

o Updated and tidied the "IANA Considerations" section.

o Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

o Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

o Added a note to the "IANA Considerations" clarifying the absence
of a "charset" parameter for the application/json media type.

- Changed "100" to 100 and added a boolean field, both in the first example.

- Added examples of JSON texts with simple values, neither objects nor arrays.

- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

Author's Address

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Google, Inc.

EMail: tbray@textuality.com
* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.rl

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

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*/

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/ext/json/ext/generator/generator.c

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

# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `%decimal_class` option to specify a class as which to parse
  JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape
  sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad
  Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `%required_ruby_version` to 1.9
* Some small fixes
## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make serialize :some_attribute, `JSON::GenericObject`
work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and `JSON::GenericObject`. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explicitly enabled by setting

```
JSON::GenericObject.json_creatable = true
```
as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load("")` return nil as well to make mysql text columns (default to `””) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:
  ```ruby
  serialize :value, JSON
  ```
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yibt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add `:quirks_mode` option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.
## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues#/issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <cl.github@niftybox.net> in order to allow building of json\_pure if extension\_task is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory
leak, which is fixed in this release.

* Applied 993f261cc8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)

* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)

* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)

* Trigger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)

* Added a 'State[]' method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)

* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)

* Added ':symbolize_names' option to Parser, which returns symbols instead of strings in object names/keys.

## 2009-10-01 (1.2.0)

* 'fast_generate' now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)

* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)

* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Applied patch by okkez_ in order to fix Ruby Bug #1768:
* Finally got around to avoid the rather paranoid escaping of ?/ characters in the generator's output. The parsers aren't affected by this change. Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the "max_nesting" feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn’t parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `{ ... }` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\v\n\r`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and `pretty_generate` of `unparse` and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/-characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* `/opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/CHANGES.md`

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

/* Portions of the Selector class are derived from Jack Slocum’s DomQuery, */
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style license. Please see http://www.yui-ext.com/ for more information. */
Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/data/prototype.js

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

/*
* This code is copyrighted work by Daniel Luz <dev at mernen dot com>.
*
* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt
*/

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/StringEncoder.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorService.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/ParserService.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/ByteListTranscoder.java
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* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Generator.java

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Links to all available W3C DOM Java Bindings can be found at:
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http://www.w3.org/Style/CSS/SAC/
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/* NCSA HTTPd Server
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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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1.1861 hivex 1.3.15-1ubuntu0.1

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1.1863 global-dirs 3.0.0

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1.1865 readable-stream 3.6.0

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1.1866 aes-js 3.1.2

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* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/codec/cer/__main__.py
* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/codec/ber/encoder.py
* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/codec/cer/_main__.py
* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1/type/base.py

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* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1.egg-info/PKG-INFO

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ASN.1 library for Python

=================================
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` library implements ASN.1 support in pure-Python.

What is ASN.1
------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` or `FlatBuffers`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
--------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::

    :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::

    :maxdepth: 2

/example-use-case
Download & Install
--------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

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-------

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.. toctree::
   :maxdepth: 2

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Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:
* **ASN.1 - Communication between heterogeneous systems** <http://www.oss.com/asn1/dubuisson.html> by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst

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ASN.1 library for Python
------------------------


This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)
Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id       INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer(), subtype=
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
    )
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
```
room is 321
house is 0

>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```
```
or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.1880 aws-sdk-go 1.27.0

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package licenser

import (  
    "context"  
    awsrmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licenser/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
    if params == nil {  
        params = &DeleteLicenseInput{}  
    }  
    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
    out := result.(*DeleteLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string
// Current version of the license.
//
// This member is required.
SourceVersion *string

}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {  
    if params == nil {  
        params = &ListReceivedLicensesInput{}  
    }  

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)  
    if err != nil {  
        return nil, err  
    }  

    out := result.(*ListReceivedLicensesOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}

type ListReceivedLicensesInput struct {  
    // Filters to scope the results. The following filters are supported:
    //  
    // *  
    // ProductSKU  
    //  
    // * Status  
    //  
    // * KeyFingerprint  
    //  
    // * Issuer  
    Filters []types.Filter  
    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string  
    // Maximum number of results to return in a single call.
    MaxResults *int32
// Token for the next set of results.
NextToken *string

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    return err
}
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
}
// This member is required.
HomeRegion *string

// License issuer.

// This member is required.
Issuer *types.Issuer

// License name.

// This member is required.
LicenseName *string

// Product name.

// This member is required.
ProductName *string

// Product SKU.

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.

// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil

}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
  NodeId *string
}

type CheckoutLicenseOutput struct {

  // Checkout type.
  CheckoutType types.CheckoutType

  // Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
  if params == nil {  
    params = &CheckoutBorrowLicenseInput{  
  }  

  result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
  if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string
// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    return nil
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
)
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
if params == nil {
    params = &GetLicenseInput{
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// License version.
Version *string
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSVerifierV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckInLicenseInput struct {
    
    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

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

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%notice {
  border-radius: $radius-small;
  border-width: 1px;
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}

%notice-success {
  @extend %frame-green-500, %with-passing;
}

%notice-info {
  @extend %frame-blue-500, %with-passing; /* needs a better info button*/
}

%notice-highlight {
  @extend %frame-gray-800, %with-star;
}

%notice-warning {
  @extend %frame-yellow-500, %with-warning;
}

%notice-error {
  @extend %frame-red-500, %with-critical;
}

%notice-highlight::before {
  /* %with-star, bigger */
  width: 16px;
  height: 16px;
}

%notice-success::before {
  color: $color-success;
}

%notice-info::before {
  color: $color-action; /* change to info */
}

%notice-error::before {
  color: $color-failure;
}

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---

layout: api
page_title: License - Operator - HTTP API
sidebar_current: api-operator-license
description: |

The /operator/license endpoints allow for setting and retrieving the Consul
Enterprise License.

---

# License - Operator HTTP API

-> **Enterprise Only!** This API endpoint and functionality only exists in
Consul Enterprise. This is not present in the open source version of Consul.

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.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#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

```text
$ curl http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
```
## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

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

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl 
   --request PUT 
   --data @consul.license 
   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": []
...

open_source_licenses.txt

vSphere Integrated Containers Engine 1.5.2 GA

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>>> docker_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd
>>> docker_libtrust-9ebd2a1374f46905c68a4eb3694a130610adc62a
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>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ff9cb9e073ef1f88e6069ca4a2c6a6676b

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoprotobase-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_net_lex_httplex-a6577fac2d73be281a500b310739095313165661

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+build appengine

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package short

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Julian Seward, jseward@bzip.org
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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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
and the initial implementation of incremental propagation, including the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
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    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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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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@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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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in
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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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

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

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

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

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

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

Thanks to "two guys named Ian".

$Author: poer$
$Revision: 1.13$
$Date: 1997/06/23 08:26:29$

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/B Bison implementation for Yacc-like parsers in C


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

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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
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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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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
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with and without prediction resistance

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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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Ty Coon, President of Vice
That's all there is to it!

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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 under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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Library" must include any data and utility programs needed for
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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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--------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE

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============
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=================================
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passed to you, then this takes effect immediately upon announcement.
4. If you make an `intention announcement' as described in 2b. above and after three months your intention is
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BSON library for Go

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mgo - MongoDB driver for Go

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Portions of the client are based on code at:
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package datatypes

// no documentation yet

type Legal_RegulatedWorkload struct {
    Entity

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

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

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

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

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

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

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

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

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

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1.1882 has-yarn 2.1.0

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1.1883 mmap-go 1.0.0

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);

print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);

print $lang->ctime(time);
print $lang->asctime(@lt);

print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

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=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION
This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.
=head1 SYNOPSIS
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,':utf8');
foreach my $l(keys %languages){
my $lang = Date::Language->new($l);
my $zone = $languages{$l};
print $/. "$l $zone";
print $lang->time2str($template, $time);
print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);
}
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=cut
Found in path(s):
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate2.30/lib/Date/Language/Bulgarian.pm
No license file was found, but licenses were detected in source scan.
This is the perl5 TimeDate distribution. It requires perl version 5.003

Open Source Used In SMI 2021.01.0-Jan-2022 21408


or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

    perl Makefile.PL
    make
    make test
    make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>

Found in path(s):
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/README
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - 'Graham Barr <gbarr@pobox.com>'
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic: config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
noIndex:
directory:
- t
- inc
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
  version: 2.30

Found in path(s):
  * /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/META.yml

1.1885 jersey-container-servlet-core 2.28
1.1885.1 Available under license :

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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
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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<!-- $Id$ -->

<!-- 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-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

</xsl:stylesheet>
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1.1894 klog v2.8.0

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1.1897 semver 6.3.0

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1.1905 libtext-charwidth-perl 0.04-7.1

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

import (
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
)

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

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name
    // url: the url"

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

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

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    package spec

    import {
        "encoding/json"
        "github.com/go-openapi/swag"
    }

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

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

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

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

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1.1914 hosted-git-info 4.0.2
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1.1915 python-certifi 2018.1.18-2
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calendar.crt -- Bundle of CA Root Certificates

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

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@(#)$RCSfile: certdata.txt,v$ $Revision: 1.80$ $Date: 2011/11/03 15:11:58$

1.1916 open-ldap 2.4.45+dfsg-1ubuntu1.10
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1.1917 x-crypto 0.0.0-20200510223506-06a226fb4e37

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1.1925.1 Available under license :

Apache Test was originally developed by:

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Now maintained by:

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.
Contributors to this code include:

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- Randy Terbush, randy@zyzyva.com
  port to Apache module format, "base_uri" and support for relative URLs
- James H. Cloos, Jr., cloos@jhcloos.com
  Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
  The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
- Nathan Kurz, nate@tripod.com
  Rewrite/reorganization. New handling of default, base and relative URLs.
  New Configuration directives:
  - ImapMenu {none, formatted, semiformatted, unformatted}
  - ImapDefault {error, nocontent, referer, menu, URL}
  - ImapBase {map, referer, URL}
  Support for creating non-graphical menu added. (backwards compatible):
    Old: directive URL [x,y ...]
    New: directive URL "Menu text" [x,y ...]
    or: directive URL x,y ...
  Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.
- Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server
  structures passed to them where necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation October 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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1.1941 libjpeg 8c 2ubuntu8

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1.1942 gir 1.56.1 1

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1.1948 jinja2 2.11.3

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
    ],
)```
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={":": "src"},
include_package_data=True,
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]']},

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

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

It includes:

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

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

Installing
----------

Install and update using `pip`:

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


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

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

Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

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

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1.1962 gophercloud 0.1.0
1.1962.1 Available under license:

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"  
)

// RESOURCE represents...  
type Resource struct {}  

type commonResult struct {  
gophercloud.Result  
}
// GetResult is the response from a Get operation. Call its Extract method
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
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
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever “dumb” or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it’s time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples.
of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn’t already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you’re implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you’re adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you’re adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through
the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------
If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self-contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.
While you're working on the finishing touches to your code, it is helpful to add a `\[wip\]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
----------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have
enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`.

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{
}
`.

// UpdateResult provides an update result.
const UpdateResult = `{
}
`.

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q := gophercloud.BuildQueryString(opts)
    return q.String(), nil
}

// 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)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.
Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.
And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

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

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/`

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/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 start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

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

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

The following issues are examples of missing fields:

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

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

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

### Adding a Missing API Call

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

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

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

### Adding a Missing API Suite

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

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

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

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

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

### Adding a Missing OpenStack Project

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

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

* https://github.com/gophercloud/gophercloud/issues/723
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

### Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
  ID     string `json:"id"`
  Name   string `json:"name"`
  AdminStateUp bool `json:"admin_state_up"`
  Status string `json:"status"`
  Subnets []string `json:"subnets"`
  TenantID string `json:"tenant_id"`
  Shared bool `json:"shared"
}
```

... go

type Network struct {
  ID     string `json:"id"`
  Name   string `json:"name"`
  AdminStateUp bool `json:"admin_state_up"`
  Status string `json:"status"`
  Subnets []string `json:"subnets"`
  TenantID string `json:"tenant_id"`
  Shared bool `json:"shared"
  AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as
a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.
* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1963 errors 0.9.1

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1.1964 go-restful 2.9.6+incompatible

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1.1969 github.com/golangprotobuf/v1.4.3

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1.1971 python-jsonpatch 1.19+really1.16-1fakesync1
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
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/
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Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n
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/1160876753_1620411588.74/0/jinja2-2.11.3-1.tar.gz/Jinja2-2.11.3/setup.py

1.1985 google-ppprof 0.0.0-20210323184331-8eee2492667d
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1.1986 adduser 3.116ubuntu1

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

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1.1987 netbase 5.4

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// Copyright 2016 Google LLC

package cloud

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

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

return nil

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

1.1989 asynckit 0.4.0
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1.1990 strscan 1.0.0

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1.1992 libgcc-7-dev 7.5.0-3ubuntu1~18.04

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

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
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``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
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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for
making modifications to it. ''Object code'' means any non-source form
of a work.

A ``Standard Interface'' means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other
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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
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You may convey a work based on the Program, or the modifications to
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@enumerate
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and giving a relevant date.

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need not make them do so.
@end enumerate

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@end item

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You may convey a covered work in object code form under the terms of
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ways:

@end enumerate

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(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium customarily
used for software interchange.

@end item

Convey the object code in, or embodied in, a physical product
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to copy the Corresponding Source from a network server at no charge.

@end item

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received the object code with such an offer, in accord with subsection
6b.

@end item
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@item
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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:

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
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available for as long as needed to satisfy these requirements.

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

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

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

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

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

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

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

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

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1.1993 xmlsec 1.2.25-1build1

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* Cordys R&D BV

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1.1994 jakarta-ws-rs-api 2.1.5
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* https://github.com/eclipse-ee4j/jaxrs-api

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ASN.1 library for Python
------------------------

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------
* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id     INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )),
        DefaultedNamedType('house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        ))
    )

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0

>>> record == received_record
True

>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.
More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

.. toctree::
    :maxdepth: 1

Abstract Syntax Notation One (`ASN.1`)
Abstract Syntax Notation 1 (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.
ASN.1 applications

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

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

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.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case

------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install

--------------
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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-------

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Getting help
-------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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1.2000 easyjson 0.7.0

1.2000.1 Available under license:

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1.2001 zlib 1.2.5

1.2001.1 Available under license:

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

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1.2002 jackson 1.5.1
1.2002.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers.

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1.2003 locales v0.12.1

1.2003.1 Available under license:

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1.2004 jq 1.5+dfsg 2
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1.2010 pcre 8.39-9

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Email local part: ph10
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1.2016 robfig-cron 3.0.0

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1.2017 libhtml-tree-perl 5.07-1

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1.2019 distlib 0.2.6
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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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<td>3.1</td>
<td>2010</td>
<td>PSF</td>
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>>> freebsd-base64-4.8
>>> unicode-5.0

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1~18.04ubuntu1.4

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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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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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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package api

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

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

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

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

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

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

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

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

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

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

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

}

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

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

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

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

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

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

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tomb - support for clean goroutine termination in Go.

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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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

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

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

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

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import {
  "encoding/json"
  "github.com/go-openapi/swag"
}

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

type LicenseProps struct {
  Name string `json:"name,omitempty"
  URL string `json:"url,omitempty"
}

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

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

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package minio

import (  
"bytes"  
"context"  
"encoding/xml"  
"fmt"  
"net/http"  
"net/url"  

"github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in  
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html  
type objectLegalHold struct {  
XMLNS string `xml:"xmlns,attr,omitempty"`  
XMLName xml.Name `xml:"LegalHold"`  
Status LegalHoldStatus `xml:"Status,omitempty"`  
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call  
type PutObjectLegalHoldOptions struct {  
VersionID string  
Status *LegalHoldStatus  
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call  
type GetObjectLegalHoldOptions struct {  
VersionID string  
}
// LegalHoldStatus - object legal hold status.

type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \ "%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    // GetObjectLegalHold gets legal-hold status of given object.

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return nil, err
}
urlValues := make(url.Values)
urlValues.Set("legal-hold", ":")

if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRequestToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}

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Protocol Buffers for Go with Gadgets

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

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AES in libhcrypto

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@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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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, for humouring me on.

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

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

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

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

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

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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
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Author: Zooko O’Whielacronx
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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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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1.2037 github.com/apache/queue v0.0.0-20180227141424-093482f3f8ce

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1.2038 github.com/projectcalico/api v0.0.0-20210727230302-ced3d12c92fe

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1.2039 ignore-by-default 1.0.1

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1.2040 influxdb v0.0.0-20190102202943-dd481f35df2c

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1.2041 python-pip 9.0.1-2.3~ubuntu1.18.04.5

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1.2042 berkeley-db 5.3.28-13.1ubuntu1.1

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1.2045 gophercloud v0.1.0

1.2045.1 Available under license:

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"  
)

// RESOURCE represents...
type Resource struct {
type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    return s.Links.Next, nil
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with
Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](https://github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](https://github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make
Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests
With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:
1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md)) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
    "fmt"  
    "net/http"  
    "testing"  
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
    th "github.com/gophercloud/gophercloud/testhelper"  
    "github.com/gophercloud/gophercloud/testhelper/client" 
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
{
}
`
// GetResult provides a Get result.
const GetResult =`
{
}
`;

// CreateRequest provides the input to a Create request.
const CreateRequest =`
{
}
`;

// UpdateRequest provides the input to a Update request.
const UpdateRequest =`
{
}
`;

// UpdateResult provides an update result.
const UpdateResult =`
{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
    })
}
fmt.Fprintf(w, ListResult)
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
}
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
)
package RESOURCE

import (  
"github.com/gophercloud/gophercloud"  
"github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request  
type ListOptsBuilder interface {  
ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.  
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.  
func (opts ListOpts) ToResourceListQuery() (string, error) {  
q, err := gophercloud.BuildQueryString(opts)  
return q.String(), err
}

// List retrieves a list of RESOURCES.  
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {  
url := listURL(client)  
if opts != nil {  
query, err := opts.ToResourceListQuery()  
if err != nil {  
return pagination.Pager{Err: err}
  }
  url += query
  }
return ResourcePage{pagination.LinkedPageBase{PageResult: p}}
  })
}

// Get retrieves details of a RESOURCE.  
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {  
_, r.Err = client.Get(getURL(client, id), &r.Body, nil)
return
// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {

    // ToResourceCreateMap formats a CreateOpts into a create request.
    func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
        return gophercloud.BuildRequestBody(opts, "resource")
    }

    // Create creates a new RESOURCE.
    func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
        b, err := opts.ToResourceCreateMap()
        if err != nil {
            r.Err = err
            return
        }
        _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
            OkCodes: []int{201},
        })
        return
    }

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

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

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

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

    // Update creates a new RESOURCE.
    func Update(client *gophercloud.ServiceClient, opts UpdateOptsBuilder) (r UpdateResult) {
        b, err := opts.ToResourceUpdateMap()
        if err != nil {
            r.Err = err
            return
        }
        _, r.Err = client.Put(updateURL(client), &b, &r.Body, &gophercloud.RequestOpts{
            OkCodes: []int{201},
        })
        return
    }
}
// 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)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
Step 7: Congratulations!

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

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

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

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.
Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```go
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/108)
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is 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 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

**Step 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
```
```go
```
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

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"`
}
```
’Network’ object and that its type is a list of strings (‘[ []string’).

This example is a best-case situation: the code is relatively easy to find and it’s simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

1.2046 err-code 2.0.3
1.2046.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1171160520_1622824841.22/0/err-code-2-0-3-tgz/package/README.md
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package api
import (  
"bytes"  
"io/ioutil"  
"os"  
"path/filepath"  
"regexp"  
"testing"  
)  
// Files in this package use a BSD-style license.  
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)*  
(//|#) Use of this source code is governed by a BSD-style  
(//|#) license that can be found in the LICENSE file.  
`)  
const prefix = "// Copyright"  
// A few files have to be skipped.  
var skip = map[string]bool{  
"tools.go": true, // This file requires another comment above the license.  
"internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.  
"internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.  
}  
// This test validates that all go files in the repo start with an appropriate license.  
func TestLicense(t *testing.T) {  
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
if skip[path] {  
return nil  
}  
if err != nil {  
return err  
}  
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {  
return nil  
}  
src, err := ioutil.ReadFile(path)  
if err != nil {  
return nil  
}  
// Verify that the license is matched.  
if !sentinel.Match(src) {  
t.Errorf("%v: license header not present", path)  
}  
}  
}
// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
    return nil
}

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

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    {
      "shape":"AuthorizationException"},
    {
      "shape":"AccessDeniedException"},
    {
      "shape":"RateLimitExceededException"}
  ]
},

"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {
      "shape":"ServerInternalException"},
  ]
}
{
"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededExce

"ListAssociationsForLicenseConfiguration":{
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"http":{
"method":"POST",
"requestUri":/"},
"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededExce

"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":/"},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalExcept

"ListLicenseSpecificationsForResource":{
"name":"ListLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":/"},
"input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
"output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
"errors":[
"shape":"AuthorizationException"},
{"shape":"ServerInternalExce


"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
   {"shape":"InvalidParameterValueException"},
   {"shape":"ServerInternalException"},
   {"shape":"AuthorizationException"},
   {"shape":"AccessDeniedException"},
   {"shape":"RateLimitExceededException"}
],
"UpdateLicenseSpecificationsForResource":{
   "name":"UpdateLicenseSpecificationsForResource",
   "http":{
      "method":"POST",
      "requestUri":"/"
   },
   "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
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   "errors":[
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      {"shape":"InvalidResourceStateException"},
      {"shape":"LicenseUsageException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
   ]
},
"UpdateServiceSettings":{
   "name":"UpdateServiceSettings",
   "http":{
      "method":"POST",
      "requestUri":"/"
   },
   "input":{"shape":"UpdateServiceSettingsRequest"},
   "output":{"shape":"UpdateServiceSettingsResponse"},
   "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
   ]
},
"shapes":{
   "AccessDeniedException":{
      "type":"structure",}
"members": {
    "Message": {"shape": "Message"}
},
"exception": true
},
"AuthorizationException": {
    "type": "structure",
    "members": {
        "Message": {"shape": "Message"}
    },
    "exception": true
},
"Boolean": {"type": "boolean"},
"BoxBoolean": {"type": "boolean"},
"BoxInteger": {"type": "integer"},
"BoxLong": {"type": "long"},
"ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {"shape": "ResourceType"},
        "ConsumedLicenses": {"shape": "BoxLong"}
    }
},
"ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {"shape": "ConsumedLicenseSummary"}
},
"CreateLicenseConfigurationRequest": {
    "type": "structure",
    "required": [
        "Name",
        "LicenseCountingType"
    ],
    "members": {
        "Name": {"shape": "String"},
        "Description": {"shape": "String"},
        "LicenseCountingType": {"shape": "LicenseCountingType"},
        "LicenseCount": {"shape": "BoxLong"},
        "LicenseCountHardLimit": {"shape": "BoxBoolean"},
        "LicenseRules": {"shape": "StringList"},
        "Tags": {"shape": "TagList"}
    }
},
"CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {"shape": "String"}
    }
}
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"required": ["LicenseConfigurationArn"],
"members": {
  "LicenseConfigurationArn": { "shape": "String" }
}
},
"GetLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": { "shape": "String" },
    "LicenseConfigurationArn": { "shape": "String" },
    "Name": { "shape": "String" },
    "Description": { "shape": "String" },
    "LicenseCountingType": { "shape": "LicenseCountingType" },
    "LicenseRules": { "shape": "StringList" },
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    "LicenseCountHardLimit": { "shape": "BoxBoolean" },
    "ConsumedLicenses": { "shape": "BoxLong" },
    "Status": { "shape": "String" },
    "OwnerAccountId": { "shape": "String" },
    "ConsumedLicenseSummaryList": { "shape": "ConsumedLicenseSummaryList" },
    "ManagedResourceSummaryList": { "shape": "ManagedResourceSummaryList" },
    "Tags": { "shape": "TagList" }
  }
},
"GetServiceSettingsRequest": {
  "type": "structure",
  "members": {
  }
},
"GetServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "S3BucketArn": { "shape": "String" },
    "SnsTopicArn": { "shape": "String" },
    "OrganizationConfiguration": { "shape": "OrganizationConfiguration" },
    "EnableCrossAccountsDiscovery": { "shape": "BoxBoolean" }
  }
},
"InvalidParameterValueException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "exception": true,
  "synthetic": true
},
"InvalidResourceStateException": {
  "type": "structure",
  "members": {
  }
}
"members": {
  "Message": {"shape": "Message"}
},
"exception": true
},
"InventoryFilter": {
  "type": "structure",
  "required": [
    "Name",
    "Condition"
  ],
  "members": {
    "Name": {"shape": "String"},
    "Condition": {"shape": "InventoryFilterCondition"},
    "Value": {"shape": "String"}
  }
},
"InventoryFilterCondition": {
  "type": "string",
  "enum": [
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList": {
  "type": "list",
  "member": {"shape": "InventoryFilter"}
},
"LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {"shape": "String"},
    "LicenseConfigurationArn": {"shape": "String"},
    "Name": {"shape": "String"},
    "Description": {"shape": "String"},
    "LicenseCountingType": {"shape": "LicenseCountingType"},
    "LicenseRules": {"shape": "StringList"},
    "LicenseCount": {"shape": "BoxLong"},
    "LicenseCountHardLimit": {"shape": "BoxBoolean"},
    "ConsumedLicenses": {"shape": "BoxLong"},
    "Status": {"shape": "String"},
    "OwnerAccountId": {"shape": "String"},
    "ConsumedLicenseSummaryList": {"shape": "ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList": {"shape": "ManagedResourceSummaryList"}
  }
}
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},


"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
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  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {"shape": "String"},
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type": "structure",
  "members": {
    "LicenseSpecifications": {"shape": "LicenseSpecifications"},
    "NextToken": {"shape": "String"}
  }
},
"ListResourceInventoryRequest":{
  "type": "structure",
  "members": {
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"},
    "Filters": {"shape": "InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
  "type": "structure",
  "members": {
    "ResourceInventoryList": {"shape": "ResourceInventoryList"},
    "NextToken": {"shape": "String"}
  }
},
"ListTagsForResourceRequest":{
  "type": "structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {"shape": "String"}
  }
},
"ListTagsForResourceResponse":{
  "type": "structure",
  "members": {
    "Tags": {"shape": "TagList"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {"shape": "String"},
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type": "structure",
  "members": {
    "UsageHistory": {"shape": "UsageHistoryList"},
    "NextToken": {"shape": "String"}
  }
}
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
"NextToken":{"shape":"String"}
}
},
"ManagedResourceSummary":{
"type":"structure",
"members":{
"ResourceType":{"shape":"ResourceType"},
"AssociationCount":{"shape":"BoxLong"}
}
},
"ManagedResourceSummaryList":{
"type":"list",
"member":{"shape":"ManagedResourceSummary"}
},
"Message":{"type":"string"},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{"shape":"Boolean"}
}
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"RateLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"}
}
"PlatformVersion": {"shape":"String"},
"ResourceOwningAccountId": {"shape":"String"}
}
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"ResourceInventoryList": {
"type": "list",
"member": {"shape": "ResourceInventory"}
},
"ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {"shape": "Message"}
},
"exception": true
},
"ResourceType": {
"type": "string",
"enum": [
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI"
]
},
"ServerInternalException": {
"type": "structure",
"members": {
"Message": {"shape": "Message"}
},
"exception": true,
"fault": true
},
"String": {"type": "string"},
"StringList": {
"type": "list",
"member": {"shape": "String"}
},
"Tag": {
"type": "structure",
"members": {
"Key": {"shape": "String"},
"Value": {"shape": "String"}
}
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"TagKeyList": {
"type": "list",
"member": {"shape": "String"}
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"TagList": {"shape": "String"}
"type": "list",
"member": {"shape": "Tag"}
},
"TagResourceRequest": {
"type": "structure",
"required": [
"ResourceArn",
"Tags"
],
"members": {
"ResourceArn": {"shape": "String"},
"Tags": {"shape": "TagList"}
}
},
"TagResourceResponse": {
"type": "structure",
"members": {
}
},
"UntagResourceRequest": {
"type": "structure",
"required": [
"ResourceArn",
"TagKeys"
],
"members": {
"ResourceArn": {"shape": "String"},
"TagKeys": {"shape": "TagKeyList"}
}
},
"UntagResourceResponse": {
"type": "structure",
"members": {
}
},
"UpdateLicenseConfigurationRequest": {
"type": "structure",
"required": [
"LicenseConfigurationArn"
],
"members": {
"LicenseConfigurationArn": {"shape": "String"},
"LicenseConfigurationStatus": {"shape": "LicenseConfigurationStatus"},
"LicenseRules": {"shape": "StringList"},
"LicenseCount": {"shape": "BoxLong"},
"LicenseCountHardLimit": {"shape": "BoxBoolean"},
"Name": {"shape": "String"},
"Description": {"shape": "String"}
}
}
"UpdateLicenseConfigurationResponse":{  
  "type": "structure",  
  "members": {  
  }  
},

"UpdateLicenseSpecificationsForResourceRequest":{  
  "type": "structure",  
  "required": ["ResourceArn"],  
  "members": {  
    "ResourceArn": {"shape": "String"},  
    "AddLicenseSpecifications": {"shape": "LicenseSpecifications"},  
    "RemoveLicenseSpecifications": {"shape": "LicenseSpecifications"}  
  }  
},

"UpdateLicenseSpecificationsForResourceResponse":{  
  "type": "structure",  
  "members": {  
  }  
},

"UpdateServiceSettingsRequest":{  
  "type": "structure",  
  "members": {  
    "S3BucketArn": {"shape": "String"},  
    "SnsTopicArn": {"shape": "String"},  
    "OrganizationConfiguration": {"shape": "OrganizationConfiguration"},  
    "EnableCrossAccountsDiscovery": {"shape": "BoxBoolean"}  
  }  
},

"UpdateServiceSettingsResponse":{  
  "type": "structure",  
  "members": {  
  }  
}

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`
{  "version": "2.0",  "service": "<fullname> AWS License Manager </fullname> <p> <i>This is the AWS License Manager API Reference. </i> It provides descriptions, syntax, and usage examples for each of the actions and data types for License Manager. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL. </p> <p> Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see <a href="http://aws.amazon.com/tools/#SDKs">AWS SDKs</a>. </p>
  "operations": {    "CreateLicenseConfiguration": "<p>Creates a new license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used. </p>
  "DeleteLicenseConfiguration": "<p>Deletes an existing license configuration. This action fails if the configuration is in use. </p>
  "GetLicenseConfiguration": "<p>Returns a detailed description of a license configuration. </p>
  "GetServiceSettings": "<p>Gets License Manager settings for a region. Exposes the configured S3 bucket, SNS topic, etc., for inspection. </p>
  "ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for a license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance may not consume a license (depending on the license rules). Use this operation to find all resources associated with a license configuration. </p>
  "ListLicenseConfigurations": "<p>Lists license configuration objects for an account, each containing the name, description, license type, and other license terms modeled from a license agreement. </p>
  "ListLicenseSpecificationsForResource": "<p>Returns the license configuration for a resource. </p>
  "ListResourceInventory": "<p>Returns a detailed list of resources. </p>
  "ListTagsForResource": "<p>Lists tags attached to a resource. </p>
  "ListUsageForLicenseConfiguration": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. </p>
  "TagResource": "<p>Attach one of more tags to any resource. </p>
  "UntagResource": "<p>Remove tags from a resource. </p>
  "UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration object. A license
configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (Instances, cores, sockets, VCPUs), tenancy (shared or Dedicated Host), host affinity (how long a VM is associated with a host), the number of licenses purchased and used.

"UpdateLicenseSpecificationsForResource": 
"<p>Updates License Manager service settings.</p>"
"ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
"ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
"ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
"ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
"ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>"
"base": null,
"refs": {
  "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
},
"FilterValue": {
  "base": null,
  "refs": {
    "FilterValues$member": null
  }
},
"FilterValues": {
  "base": null,
  "refs": {
    "Filter$Values": "<p>One or more filter values. Filter values are case-sensitive.</p>"
  }
},
"Filters": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsRequest$Filters": "<p>One or more filters.</p>",
    "ListUsageForLicenseConfigurationRequest$Filters": "<p>List of filters to apply.</p>"
  }
},
"GetLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"InvalidParameterValueException": {
  "base": "<p>One or more parameter values are not valid.</p>",
  "refs": {
  }
}
"InvalidResourceStateException": {
  "base": "License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down."
},
"InventoryFilter": {
  "base": "An inventory filter object.
  "refs": {
    "InventoryFilterList\$member": null
  }
},
"InventoryFilterCondition": {
  "base": null,
  "refs": {
    "InventoryFilter\$Condition": "The condition of the filter."
  }
},
"InventoryFilterList": {
  "base": null,
  "refs": {
    "ListResourceInventoryRequest\$Filters": "One or more filters."
  }
},
"LicenseConfiguration": {
  "base": "A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.
  "refs": {
    "LicenseConfigurations\$member": null
  }
},
"LicenseConfigurationAssociation": {
  "base": "Describes a server resource that is associated with a license configuration."
},
"LicenseConfigurationAssociations": {
  "base": null,
  "refs": {
    "ListAssociationsForLicenseConfigurationResponse\$LicenseConfigurationAssociations": "Lists association objects for the license configuration, each containing the association time, number of consumed licenses, resource ARN, resource ID, account ID that owns the resource, resource size, and resource type."
  }
}
"LicenseConfigurationStatus": { "base": null, "refs": { "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "New status of the license configuration (ACTIVE or INACTIVE)." } }, 
"LicenseConfigurationUsage": { "base": "Contains details of the usage of each resource from the license pool.", "refs": { "LicenseConfigurationUsageList$member": null } }, 
"LicenseConfigurationUsageList": { "base": null, "refs": { "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "An array of LicenseConfigurationUsage objects." } }, 
"LicenseConfigurations": { "base": null, "refs": { "ListLicenseConfigurationsResponse$LicenseConfigurations": "Array of license configuration objects." } }, 
"LicenseCountingType": { "base": null, "refs": { "CreateLicenseConfigurationRequest$LicenseCountingType": "Dimension to use to track the license inventory.", "GetLicenseConfigurationResponse$LicenseCountingType": "Dimension on which the licenses are counted (for example, instances, cores, sockets, or VCPUs).", "LicenseConfiguration$LicenseCountingType": "Dimension to use to track license inventory." } }, 
"LicenseSpecification": { "base": "Object used for associating a license configuration with a resource.", "refs": { "LicenseSpecifications$member": null } }, 
"LicenseSpecifications": { "base": null, "refs": { "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "License configurations" } },
associated with a resource.

"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "License configuration ARNs to be added to a resource.

"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "License configuration ARNs to be removed from a resource."}

"LicenseUsageException": {
  "base": "You do not have enough licenses available to support a new resource launch.

"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
}

"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
}

"ListLicenseConfigurationsRequest": {
  "base": null,
  "refs": {
  }
}

"ListLicenseConfigurationsResponse": {
  "base": null,
  "refs": {
  }
}

"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
}

"ListLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
}

"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
}

"ListResourceInventoryResponse": {

"RateLimitExceededException$Message": null,
"ResourceLimitExceededException$Message": null,
"ServerInternalException$Message": null
}
,
"OrganizationConfiguration": {
"base": "<p>Object containing configuration information for AWS Organizations.</p>",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether AWS Organizations has
been integrated with License Manager for cross-account discovery.</p>",
"UpdateServiceSettingsRequest$OrganizationConfiguration": "<p>Integrates AWS Organizations with License
Manager for cross-account discovery.</p>"
}
,
"RateLimitExceededException": {
"base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
"refs": {
}
}
,
"ResourceInventory": {
"base": "<p>A set of attributes that describe a resource.</p>",
"refs": {
"ResourceInventoryList$member": null
}
}
,
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": "<p>The detailed list of resources.</p>"
}
}
,
"ResourceLimitExceededException": {
"base": "<p>Your resource limits have been exceeded.</p>",
"refs": {
}
}
,
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license
(instance, host, or AMI).</p>"
,
"LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>"
,
"LicenseConfigurationUsage$ResourceType": "<p>Type of resource associated with the license
configuration.</p>"
,
"ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license (instance, host,
or AMI).</p>"
,
"ResourceInventory$ResourceType": "<p>The type of resource.</p>"
configuration.

"LicenseConfigurationUsage$ResourceOwnerId": "<p>ID of the account that owns a resource that is associated with the license configuration.</p>",

"LicenseSpecification$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>",

"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of a <code>LicenseConfiguration</code> object.</p>",

"ListAssociationsForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest$ResourceArn": "<p>ARN of an AMI or Amazon EC2 instance that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest$ResourceArn": "<p>Resource of the ARN to be tagged.</p>",

"UntagResourceRequest$ResourceArn": "<p>ARN of the resource.</p>",

"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN for a license configuration.</p>",

"UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>",

"UpdateLicenseConfigurationRequest$Description": "<p>New human-friendly description of the license configuration.</p>",

"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>ARN for an AWS server resource.</p>",

"UpdateServiceSettingsRequest$S3BucketArn": "<p>ARN of the Amazon S3 bucket where License Manager information is stored.</p>",

"UpdateServiceSettingsRequest$SnsTopicArn": "<p>ARN of the Amazon SNS topic used for License Manager alerts.</p>"}
"CreateLicenseConfigurationRequest$LicenseRules": "<p>Array of configured License Manager rules.</p>",
"GetLicenseConfigurationResponse$LicenseRules": "<p>List of flexible text strings designating license rules.</p>",
"LicenseConfiguration$LicenseRules": "<p>Array of configured License Manager rules.</p>",
"ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>An array of ARNs for the calling accounts license configurations.</p>",
"UpdateLicenseConfigurationRequest$LicenseRules": "<p>List of flexible text strings designating license rules.</p>"
}

"Tag": {
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"refs": {
"TagList$member": null
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"UntagResourceRequest$TagKeys": "<p>List keys identifying tags to remove.</p>"
}
},
"TagList": {
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"refs": {
"CreateLicenseConfigurationRequest$Tags": "<p>The tags to apply to the resources during launch. You can only tag instances and volumes on launch. The specified tags are applied to all instances or volumes that are created during launch. To tag a resource after it has been created, see CreateTags.</p>",
"GetLicenseConfigurationResponse$Tags": "<p>List of tags attached to the license configuration.</p>",
"ListTagsForResourceResponse$Tags": "<p>List of tags attached to the resource.</p>",
"TagResourceRequest$Tags": "<p>Names of the tags to attach to the resource.</p>"
}
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}  
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2058 libpam-systemd 237-3ubuntu10.52

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLRWBAND0x0100
#endif

#define INFTIM(-1)/* not standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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[Tatu continues]
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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
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* @version 3.0 (December 2000)
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/
/*

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#endif
#endif

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```c
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

1.2063 software-properties 0.96.24.32.14

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1.2064 snowball-stemmer 1.2.1
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Snowball stemming library collection for Python
==================================================

This document pertains to the Python version of the stemmer library distribution, available for download from:

* https://github.com/shibukawa/snowball/

This repository includes Python source code generator

* https://github.com/shibukawa/snowball_python/

This repository includes generated Python source codes

Original program is maintained at following place:

* http://snowball.tartarus.org/
Original Snowball product created by Dr Martin Porter and Richard Boulton (Java porting). Original Snowball and my products are released under BSD license.

How to use library
------------------
The `snowballstemmer` module has two functions.

The `snowballstemmer.algorithms` function returns a list of available algorithm name string.

The `snowballstemmer.stemmer` function accepts algorithm name and returns `Stemmer` objects.

`Stemmer` objects have `Stemmer.stemWord(word)` method and `Stemmer.stemWords(word[])` method.

.. code-block:: python

    import snowballstemmer
    stemmer = snowballstemmer.stemmer('english');
    print(stemmer.stemWords("We are the world".split()));

`Stemmer` objects have `Stemmer.maxCacheSize` property. They cache result within the value. Default is 10000.

Accelerates Stemming
---------------------

if PyStemmer is installed, `snowballstemmer.stemmer` returns PyStemmer's `Stemmer` objects. This `Stemmer` object has same methods (`Stemmer.stemWord()`, `Stemmer.stemWords()`).

PyStemmer is a Snowball's `libstemmer_c` wrapper module and it returns 100% compatible result with snowballstemmer.

PyStemmer has faster speed because it uses C-lang module, and snowballstemmer has higher usability because it is pure Python module.

* PyStemmer <http://pypi.python.org/pypi/PyStemmer/>`

Benchmark
~~~~~~~~~~

Test Case: Snowball stemmer check data (16 algorithms, total 582560 words, cache hit 0%)
Computer: MacBook Pro 3rd Gen Corei7 2.3GHz

* Python 2.7 + snowballstemmer: 2m 30s
* PyPy 1.9 + snowballstemmer: 45s
* Python 2.7 + PyStemmer: 5s
This test case is much harder than usual usecases!

The TestApp example
---------------------

The `testapp.py` example program allows you to run any of the stemmers on a sample vocabulary.

Usage:

```
testapp.py <algorithm> "sentences ...
```

.. code-block:: bash

```
$ python testapp.py English "sentences...
```

Thanks
------

* Original Snowball authors
* Emil Stenström

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Metadata-Version: 1.1
Name: snowballstemmer
Version: 1.2.1
Summary: This package provides 16 stemmer algorithms (15 + Poerter English stemmer) generated from Snowball algorithms.
Home-page: https://github.com/shibukawa/snowball_py
Author: Yoshiki Shibukawa
Author-email: yoshiki at shibu.jp
License: BSD
Description:
   It includes following language algorithms:

   * Danish
   * Dutch
   * English (Standard, Porter)
   * Finnish
   * French
   * German
   * Hungarian
   * Italian
   * Norwegian
   * Portuguese
   * Romanian
   * Russian
   * Spanish
   * Swedish
   * Turkish

   This is a pure Python stemming library. If `PyStemmer <http://pypi.python.org/pypi/PyStemmer>`_ is available, this module uses it to accelerate.

Keywords: stemmer
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Natural Language :: Danish
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1.2065 kubernetes-apimachinery 0.20.1

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Revision 4.4.5, released 2018-08-05
-----------------------------------
- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed `Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi `nextCmd` and `bulkCmd` calls when `lexicographicMode = False`

Revision 4.4.4, released 2018-01-03
-----------------------------------
- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision 4.4.3, released 2017-12-22
-----------------------------------
- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11
-----------------------------------
- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The `.setObjects()` method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIV2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference()
instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23
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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv[4,6] objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06
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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26
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- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows
Revision 4.3.8, released 2017-06-15
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- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29
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* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28
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- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework.
The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to *lexicographicMode* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level

Revision 4.3.5, released 2017-03-24
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- The getNext() and getBulk() calls of Twisted interface.
  now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification PDU back to sender.

Revision 4.3.4, released 2017-03-01
-----------------------------------
- Fix to low-level SNMP API example to accommodate changed pyasn1
  SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF
  API calls adjusted to accommodate changed pyasn1 API (in part
  of .setComponentBy*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as
  MIB objects. A side effect of this change is that additional
  var-binds can only be added prior to .resolveMibObjects() is
  run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256
  key localization algorithm implemented and set as default for
  usmAesCfb192Protocol and usmAesCfb256Protocol identifiers.
  Original and more standard implementation can still be used
  with the usmAesBlumenthalCfb192Protocol and
  usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and
  more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT
  based value parsing.
- Fix to NotificationType to make additional var-binds overriding
  MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are
  present (e.g. py2exe/cx_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break
  valid SNMP SET operations on tables if RowStatus column is not
  passed at the very end of var-binds.
- All SNMP counters now incremented via ‘+= 1’ rather than ‘x = x + 1’
  to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInvalidateMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12
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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to __doc__ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now they are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28
-------------------------------
- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:
* avoid binding to specific SNMP engine instance to promote single SNMP app instance using many SNMP engine instances
* support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents
* keep callback context data in stack rather than in stateful application cache
* newly introduced sendVarBinds() method offers a more functional and logical signatures.
* Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.
* Oneliner API reworked to become more generic: its LCD configuration shortcuts and and var-bindings processing code split off SNMP apps classes to stand-alone objects. The whole API also moved up in package naming hierarchy and becomes ' pysnmp.hlapi.asyncore' (hlapi is apparently an African fish). Old oneliner API remains fully operational at its original location.
* Synchronous oneliner apps redesigned to offer Python generator-based API along with a more comprehensive set of accepted parameters.
* Asyncore-based asynchronous apps reworked to become functions.
* Twisted API moved entirely into high-level domain to be aligned with other high-level APIs. This WILL BREAK backward compatibility for those apps that use Twisted API.
* Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RST markup.
- Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
- Initial support for the asynco & Trollius frameworks and coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.
- Original asynsock transport and AsynsockDispatcher renamed into asyncio and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.
- The asyncio-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy application. Technically, the following features were brought into pysnmp with this update:

* Sending SNMP packets from a non-local IP address
* Receiving IP packets for non-local IP addresses
* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.

- Internal oneliner apps configuration cache moved from respective apps objects to a singular \texttt{snmpEngine} "user context" object. That would allow for better cache reuse and allow for a single app working with many \texttt{snmpEngine} instances.
- Oneliner \texttt{GETBULK} Command Generator now strips possible excessive OIDs off the bottom of returned \texttt{var-binds} table.
- Constraints assignment shortcut added to some base \texttt{rfc1902} types (\texttt{Integer}, \texttt{Integer32}, \texttt{OctetString}, \texttt{Bits}). That formally constitutes ASN.1 sub-typing.
- Built-in debugging is now based on Python logging module.
- Examples on a single Transport Dispatcher use with multiple \texttt{SnmpEngine} instances added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's \texttt{communityName} re-mapping added.
- Broadcast socket option can now be enabled with the \texttt{.enableBroadcast()} call for any datagram-based transport (namely, UDP and UDP6).
- \texttt{AbstractTransportDispatcher}'s \texttt{jobStarted()} and \texttt{jobFinished()} methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports \texttt{setLocalAddress()} method to force socket binding to specified local interface.
- New public \texttt{DgramSocketTransport.getLocalAddress()} returns local endpoint address underlying BSD socket is currently bound to.
- Passing request details to access control callback at \texttt{CommandResponder} reworked towards more robust and simple design with the execution observer facility.
- All MIBs rebuilt with pysmi.
- MIB instrumentation example improved to cover table index building facility.
- Handle the case of null writer at Debug printer.
- Do not cache \texttt{snmpEngineId} & \texttt{snmpAdminString} at \texttt{CommandGenerator} to let it be reused with many different \texttt{snmpEngines}.
- TRAP PDU agent address evaluation at proto.api made lazy to improve startup time.
- Multiple fixes to verify \texttt{pyasn1 decoder.decode()} return to withstand broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent across reboots.
- Make \texttt{config.delTransport()} returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
- Parts of SMIV1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIV1. Symbols defined in these MIBs only present in SMIV1 so they can't be substituted with their SMIV2 analogues.
- \texttt{MibBuilder.addMibSources()} convenience method added.
- The \texttt{smi.MibBuilder()} will now raise more specific exceptions (\texttt{MibLoadError},...
MibNotFoundError) on MIB loading problems rather than more generic SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more
generality to mimic OBJECT-TYPE macro capabilities related to SNMP
PDU handling. The two new classed are ObjectIdentity and ObjectType.
The ObjectIdentity class additionally supports just a MIB module name
initializer in which case if resolves into either first or last symbol
in given MIB. Another option is just a MIB symbol initializer without
specifying MIB module.
This new subsystem is moved from the scope of oneliner to more common
pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever
part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it
recognizes (PYSNMP_MIB_DIR, PYSNMP_MIB_DIRS, PYSNMP_MIB_PKGS) rather
than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass
constraints.
- A few additional MIB tree management methods added to MibViewController
to better address ordered nature of MIB tree nodes (namely, getFirst*,
getLast* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure:
respond with notInTimeWindows rather then with unsupportedSecurityLevel
at time synchronization phase.
- Fix to rfc1902.Bits type to make it accepting hex and binary initializers,
cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across
multiple GETBULK iterations so returned table for nonRepeaters columns
would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across
multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting at rfc1902.OctetString
on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to
make the 'fixed length' property working.
- Fix to clone() method of rfc1902.Bits class to make its signature
matching the rest of classes. This may broke code which used to pass
namedValue parameter positionally rather than binding it by name.
- Fix to PDU translation service (proto.proxy.rfc2576) to make it
initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on
pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving
unique PDU request-id's in both outgoing and incoming confirmed
and response PDU types. Duplicate request-id's in unrelated PDUs may
cause cache errors otherwise.
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- Fix to licensing terms of multiple twisted backend modules to make the whole pysnmp package licensed under BSD 2-Clause license. This change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error (but ENOENT) and raise IOError uniformly on any directory/egg access failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02

- License updated to vanilla BSD 2-Clause to ease package use (http://opensource.org/licenses/BSD-2-Clause).
- A dozen of lightweight Twisted-based example scripts replaced more complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at demo.snmplabs.com to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now be instructed to ignore portentially malformed errorIndex SNMP packet value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator apps re-worked and improved. For instance it is now it's possible to run getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the scene.
- The $PYSNMP_MIB_DIR & $PYSNMP_MIB_DIRS & $PYSNMP_MIB_PKGS path separator made platform-specific.
- Change to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings at once. Although RFC2576 does not suggest error-status -> v2c exception translation, historically pysnmp used to perform it for a long time so we can't easily stop doing that.
- Exception re-raising improved at MibInstrumController.flipFlopFsm() and asynsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple...
receivers (identified by IDs) chosen by a public data routing method.
- SnmpEngine.[un]registerTransportDispatcher() methods now accept optional
  receiver ID token to be used by transport dispatcher's data router. This
  allows for multiple SNMP engines registration with a single transport
dispatcher.
- Distribute is gone, switched to setuptools completely.
- The snmpCommunityTable row selection improved to follow RFC2576, clause
  5.2.1.
- Asyncore-based dispatcher attempts to use poll() whenever available
  on the platform. It would help handling a really large number (>1024)
of file descriptors.
- AsynCommandGenerator.makeReadVarBinds() generalized into a new
  makeVarBinds() method which replaces somewhat redundant code at setCmd()
  and AsynNotificationOriginator.sendNotification().
- AsynCommandGenerator.ucfgCmdGen() & AsynNotificationOriginator.ucfgCmdGen()
  methods now accept optional authData parameter to remove specific entries
  from LCD. This can be useful for modifying security parameters for
  specific securityName.
- SNMP credentials management reworked to separate userName from securityName
  in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(),
  addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData()
  renamed into securityEngineId as it's semantically correct.
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing
  to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo()
  method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the
  maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport()
  and improved by automatically instantiating compatible TransportDispatcher
  making it dispatcher-agnostic. As an additional bonus, application may not
  call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented
  to communicate discovered peer SNMP engine information to SNMP apps what
  can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account
  securityModel & securityLevel when reducing LCD access via addTrapUser().
  This improves LCD consistency on sparse add/del operatons but also
  does not let you to configure different securityModels per securityName
  at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet_ntop()/inet_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value
  generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working
  in both Generator and Responder modes and better follow RFC2576
requirements on sequential entries lookup and selection. As a side effect, untagged snmpCommunityTable entries will *not* match tagged snmpTargetAddrTable entries and vice versa.

- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsynsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP ContextEngineId/ContextName/SecurityEngineId is used.
- The className parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than $2^{17}$ (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make a) the notificationType param mandatory b)t e varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules
data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System
  used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID
  values from SNMP engine's instrumentation rather than from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances
  creation.
- Fix to Management Instrumentation code to handle cases of non-initialized
  or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through
  SNMP working again. Wrong method (instumClone) was probed at terminal
  MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06
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- SECURITY FIX: USM subsystem did not verify securityLevel of a request
to an authoritative SNMP engine against auth/priv protocols
configured for the user in question. That allowed unauthenticated/unciphered
access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args
lookupNames, lookupValues that enable response OID / value looked up at
MIB and reported as a MibVariable container object carrying relevant
MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be
passed within a MibVariable container object which would do a deferred
MIB lookup for name resolution. This is a new and preferred API which
obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows
and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and
bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the
oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive
MibName's smiCreate()/smiWrite()/smiDestroy() methods with
MibScalarInstance's getValue()/setValue()
- MibTree.readTest[Get]Next() reworked to be called uniformly so
user could tap on these methods at any level of the MIB tree.
- MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted
and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system
operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses
local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports
added.
- Package version is now available as __init__.__version__ and it is
in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibNameController.readVarsFast() method removed for API clarity.
- MibName now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The notificationType parameter of AsynNotificationOriginator.sendNotification made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single sendPduHandle to an application even when multiple INFORMs are triggered and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance SNMP special values.
- Fix to libsmi2pyasnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent ASN.1 parsing errors crashing the whole app.
- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at MibInstrumController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly. This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21

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- Oneliner CommandGenerator can now limit the number of SNMP table rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for handling requests timeout to make packet flow time bound
to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIv1 modules excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-* MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user information, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to loose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly tag SNMPv1/v2c auth and transport LCD rows what resulted in huge delays when processing incoming messages with large number of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.__repr__() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will carry an embedded label symbol.
- Explicit repr() calls replaced with '%%r'
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.
Revision 4.2.1, released 2011-11-07
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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:
  + get rid of old-style types
  + drop string module usage
  + switch to rich comparation
  + drop explicit long integer type use
  + map()/filter() replaced with list comprehension
  + apply() replaced with var-args
  + dictionary operations made 2K/3K compatible
  + division operator made 2K/3K compatible
  + sorting function now operates on key
  + iterators returned by some funcs in py3k converted to lists
  + exception syntax made 2K/3K compatible
  + tuple function arguments resolved to scalars to become py3k compatible
  + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22
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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14
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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13
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- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17
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- Extended Security Options (3DESEDE, AES192, AES256) privacy protocols implemented.
- The error-indication codes moved from literals to objects for reliability and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:

+ all dict.has_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
+ introduce the MibInstrumController.readVarsFast() method (which skips the "testing" phase of MIB value readin) for dealing with internal configuration (LCD).
+ default debug.logger is now just a zero value instead of an object what saves big on frequent calls
+ SNMPv2-SMI columnar indices <-> index values conversion code optimized.
+ pre-compute and re-use some of ASN.1 structures.
+ avoid setting PDU defaults to save on unnecessary initialization.
+ skip ASN.1 types verification where possible.
+ at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
+ cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a, released 2010-12-13

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- SNMP Proxy example added.
- End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1). Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
- CommandResponder API now supports async mode of operation.
- SNMP exception values now exported from rfc1905 module, and made pretty printable.
- Lexicographic walking mode is now supported at oneliner CommandGenerator.
- ContextEngineId&ContextName parameters passing implemented at v3arch oneliner API.
- Multiple instances of the same transport domain now supported.
- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/ rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.
- Fix to $SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at
- Distincts search paths on each loadModules() call.
- Fix to AsyncsockDispatcher.runDispatcher() to make use of optional
  non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering
  multiple timer callbacks each with dedicated call period.
- Asyncsock mainloop default idle period reduced to 0.5 sec for better
  timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This
  defect may have caused an infinite loop on a multiple var-bind
  SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered
  passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes
  it usable for configuring multiple contextName-bound bases of Managed
  Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will
  now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery
  messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate
  Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include
  sole retries and do not include initial request. Thus, retryCount=1 will
  now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where
  indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering
  implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03

- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setup tools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than
256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy
code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21
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- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details
  (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code
  in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in
  libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple
  requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous
  code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured
  entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and
  to guess the right type between indistinguishable ObjectGroup &
  NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed
  when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25
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- Internal MIB indexing method __indexMib() unmangled to facilitate
  setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py)
  in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved
  smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp
  MIB code (enabled by default) and MibBuilder conditionally loading them
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14

- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- __repr__() implemented for UdpTransportTarget, CommunityData, UsmUserData in oneliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon
FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules intact. Otherwise loadModules() called after setMibPath() might fail with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on destruction. This might have caused memory leaks.
- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of notificationType parameter of the sendNotification method in NotificationOriginator applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification() methods in CommandGenerator and NotificationOriginator applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value should be a one-based.

Revision 4.1.7a, released 2007-02-19
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- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32,Unsigned32,TimeTicks,Counter64 value types in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional clone() method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical conversion.
- Various SNMP engine-internal caches expiration implemented.
- SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport instance per each SnmpEngine. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
- Exclude the PYSNMP_MODULE_ID symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.
- Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to to USM time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).
Revision 4.1.6a, released 2006-05-25
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- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create*/destroy*
  Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04
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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between
  Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a, released 2005-08-16
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- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes
  authProtocol and privProtocol parameters in a backward incompatible manner.
Revision 4.1.3a, released 2005-07-28
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- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12
------------------------------------
- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self-describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29
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- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01
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- Adopted to slightly changed asyncore API (as shipped with python 2.4)

Revision 4.0.1a, released 2004-11-18
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- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15
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- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package branches co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides 1) various access to MIB data 2) a way to implement custom MIB
instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and querying becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

Found in path(s):
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Further development
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Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library
+++++++++++++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawbacks: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**Done:** see `PySMI project <http://snmplabs.com/pysmi/>`_ in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.
A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools

**. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

**Done:** see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`_.

**. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

**. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

**Done:** since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`_.

If you need some particular feature - please, `open a feature request <https://github.com/etingof/pysnmp/issues/new>`_. Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.

We require contributed code to run with Python 2.4 through the latest
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package cloud

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

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

func TestLicense(t *testing.T) {  
    t.Parallel()  
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
        if err != nil {  
            return err  
        }  
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
            return nil  
        }  
        if path == "bigtable/cmd/cbt/cbdoc.go" {  
            // Automatically generated.  
            return nil  
        }  
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {  
            // BSD license, which is compatible, is embedded in the file.  
            return nil  
        }  
        src, err := ioutil.ReadFile(path)  
        if err != nil {  
            return nil  
        }  
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    })
}
// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil

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

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1.2076 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.2083 winston 3.3.3

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1.2084 golang-org-x-text v0.3.2
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1.2085 debug 3.2.7

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1.2086 libwebsocket 4.1.6

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1.2087 python-dateutil 2.6.1
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dateutil - Extensions to the standard Python datetime module.

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1.2088 testify 1.6.1

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1.2089 zlib 1.0.0

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1.2090 kubernetes-klog 2.2.0

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* /opt/cola/permits/1110790377_1606854384.85/0/minitest-5-11-3-4-gem/data-tar-gz/lib/minitest/benchmark.rb
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= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

I MUST say that minitest is *very* readable / understandable
compared to the 'other two' options we looked at. Nicely done and
thank you for helping us keep our mental sanity."

-- Wayne E. Seguin
minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with +test_+. 

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end
```

=== Specs

Require "minitest/autorun"
describe Meme do
  before do
    @meme = Meme.new
  end

describe "when asked about cheeseburgers" do
  it "must respond positively" do
    @meme.i_can_has_cheezburger?.must_equal "OHAI!"
  end
end

describe "when asked about blending possibilities" do
  it "won't say no" do
    @meme.will_it_blend?.wont_match /^no/i
  end
end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV['BENCH'] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
  end
end
100.times do
  @obj.my_algorithm(n)
end
end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at
http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification
of the calls they are expected to receive. They can throw an exception
if they receive a call they don't expect and are checked during
verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", "_") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"
**Multi-threading andMocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```ruby
def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end
```

### Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```
### Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```ruby
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

.................................................... (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```ruby
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help                       Display this help.
  -s, --seed SEED                  Sets random seed. Also via env. E.g: SEED=n rake
  -v, --verbose                    Verbose. Show progress processing files.
  -n, --name PATTERN               Filter run on /regexp/ or string.
  -e, --exclude PATTERN            Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride                      Pride. Show your testing pride!
  -a, --autotest                   Connect to autotest server.
```

== Writing Extensions

To define a plugin, add a file named `minitest/XXX_plugin.rb` to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call `+plugin_XXX_init+` during startup. The option processor will also try to call `+plugin_XXX_options+` passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```ruby
# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
```
options[:myci] = true
options[:myci_addr] = get_myci_addr
options[:myci_port] = get_myci_port
end
end

def self.plugin_bogus_init(options)
  self.reporter << MyCI.new(options) if options[:myci]
end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <<.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end
end
== FAQ

### How to test SimpleDelegates?

The following implementation and test:

```ruby
class Worker < SimpleDelegator
def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end
```

outputs a failure:

```
1) Failure:
   Worker#test_0001_must respond to work [bug11.rb:16]:
   Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
   Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
   Expectations are put on Object (one level down) so the Worker
   (SimpleDelegate) hits +method_missing+ and delegates down to the
   +Object.new+ instance. That object doesn't respond to work so the test
   fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:
class Worker
  include ::Minitest::Expectations
end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff
  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It's just ruby at
the end of the day and all your normal Good Ruby Rules (tm) apply. If
you want to extend your test using setup/teardown via a module, just
make sure you ALWAYS call super. before/after automatically call super
for you, so make sure you don't do it twice.

=== How to run code before a group of tests?

Use a constant with begin...end like this:

describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
  # ...
end

This can be useful for expensive initializations or sharing state.
Remember, this is just ruby code, so you need to make sure this
technique and sharing state doesn't interfere with your tests.

=== Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>`)? If so,
in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>`
to your Gemfile and run +bundle+. Once it's installed, you should be
able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

    --- expected
    +++ actual
    @@ -1,2 +1,3 @@
    # encoding: UTF-8
    -"Expected /\w+/ to not match "blah blah blah"."
    +"Expected /\w+/ to not match # encoding: UTF-8
    +"blah blah blah"."

To check your current encoding, run:

    ruby -e 'puts Encoding.default_external'

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of '-Eutf-8'. Something like:

    RUBYOPT=-'Eutf-8' ruby -e 'puts Encoding.default_external'

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).
Once you've got it successfully outputting UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.
This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_long
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
   Expected: "--- expected
   +++ actual
   @@ -1 +1 @@
   "hahahahahahahahahahahahahahahahahahahaha"
   Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
   "hahahahahahahahahahahahahahahahahahahaha"
   "n Actual: "hahahahahahahahahahahahahahahahahahahaha"

5) Failure:
   TestMinitestUnitTestCase#test Assert_equal_different_collection_hash_hex_invisible
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
   Expected: "No visible difference in the Hash#inspect output.\n   You should look at the implementation of #== on Hash or its members.\n   {1=>#<Object:0xXXXXXXX>}
   Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
   Actual: {1=>#<Object:0x0000003ba0448>}

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don’t, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g. <tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.

E.g. <tt>it "requires JS driver", js: true do</tt> &
<tt>ruby test.rb --tag js</tt> runs tests tagged :js.

- **minispec-rails**: Minimal support to use Spec style in Rails 5+.
- **minitest-around**: Around block for minitest. An alternative to setup/teardown dance.
- **minitest-assert_errors**: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
- **minitest-autotest**: autotest is a continuous testing facility meant to be used during development.
- **minitest-bacon**: minitest-bacon extends minitest with bacon-like functionality.
- **minitest-bang**: Adds support for RSpec-style let! to immediately invoke let statements before each test.
- **minitest-bisect**: Helps you isolate and debug random test failures.
- **minitest-blink1_reporter**: Display test results with a Blink1.
- **minitest-capistrano**: Assertions and expectations for testing Capistrano recipes.
- **minitest-capybara**: Capybara matchers support for minitest unit and spec.
- **minitest-chef-handler**: Run Minitest suites as Chef report handlers
- **minitest-ci**: CI reporter plugin for Minitest.
- **minitest-context**: Defines contexts for code reuse in Minitest specs that share common expectations.
- **minitest-debugger**: Wraps assert so failed assertions drop into the ruby debugger.
- **minitest-display**: Patches Minitest to allow for an easily configurable output.
- **minitest-documentation**: Minimal documentation format inspired by rspec's.
- **minitest-doc_reporter**: Detailed output inspired by rspec's documentation format.
- **minitest-emoji**: Print out emoji for your test passes, fails, and skips.
- **minitest-english**: Semantically symmetric aliases for assertions and expectations.
- **minitest-excludes**: Clean API for excluding certain tests you don't want to run under certain conditions.
- **minitest-fail-fast**: Reimplements RSpec's "fail fast" feature
- **minitest-filecontent**: Support unit tests with expectation results in files. Differing results will be stored again in files.
- **minitest-filesystem**: Adds assertion and expectation to help testing filesystem contents.
- **minitest-firemock**: Makes your Minitest mocks more resilient.
- **minitest-focus**: Focus on one test at a time.
- **minitest-gcstats**: A minitest plugin that adds a report of the top tests by number of objects allocated.
- **minitest-great_expectations**: Generally useful additions to minitest's assertions and expectations.
- **minitest-growl**: Test notifier for minitest via growl.
- **minitest-happy**: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag     :: Adds Minitest assertions to test for the existence of
                     HTML tags, including contents, within a provided string.
minitest-hooks       :: Around and before_all/after_all/around_all hooks
minitest-hyper       :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument  :: Instrument ActiveSupport::Notifications when
                     test method is executed.
minitest-instrument-db :: Store information about speed of test execution
                     provided by minitest-instrument in database.
minitest-junit       :: JUnit-style XML reporter for minitest.
minitest-keyword     :: Use Minitest assertions with keyword arguments.
minitest-libnotify   :: Test notifier for minitest via libnotify.
minitest-line        :: Run test at line number.
minitest-logger      :: Define assert_log and enable minitest to test log messages.
                     Supports Logger and Log4r::Logger.
minitest-macruby     :: Provides extensions to minitest for macruby UI
                     testing.
minitest-matchers    :: Adds support for RSpec-style matchers to
                     minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec,
                     but without any expectation infections.
minitest-metadata    :: Annotate tests with metadata (key-value).
minitest-mongoid     :: Mongoid assertion matchers for Minitest.
minitest-must_not   :: Provides must_not as an alias for wont in
                     Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx         :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates  :: Adds support for .predicate? methods.
minitest-profile     :: List the 10 slowest tests in your suite.
minitest-rails       :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters   :: Create customizable Minitest output formats.
minitest-rg          :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server      :: minitest-server provides a client/server setup
                     with your minitest process, allowing your test
                     run to send its results directly to a handler.
minitest-sequel      :: Minitest assertions to speed-up development and
                     testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec
                     subclasses
minitest-should_syntax :: RSpec-style `<tt>x.should == y</tt>` assertions for
                     Minitest.
minitest-shouldify   :: Adding all manner of shoulds to Minitest (bad
                     idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to
        Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g.
        expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for
        ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes
        it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class
        for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the
        contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette managment with Minitest::Spec
        and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See
        pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest
        assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

    gem "minitest"     # ensures you're using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1110790377_1606854384.85/0/minitest-5-11-3-4-gem/data-tar-gz/README.rdoc

1.2093 dropwizard-jackson 1.3.29

1.2093.1 Available under license:

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Version 2.0, January 2004

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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
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lib/gssapi/mechglue/g_imp_name.c
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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
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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
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1.2101 utils 0.0.0-20200731180307-f00132d28269

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1.2102 golang-migrate-migrate 4.7.0
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1.2103 go-runtime 1.16.8
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1.2105 minipass-sized 1.0.3

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

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

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1.2108 zope-interface 4.3.2 1build2
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1.2109 has-unicode 2.0.1

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1.2110 kubernetes-klog 2.4.0

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1.2112 requests-oauthlib 1.3.0

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1.2114 libgd2 2.2.5-4ubuntu0.5

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

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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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1.2129 async-io 1.32.0

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# Async::IO
Async::IO provides builds on [async](https://github.com/socketry/async) and provides asynchronous wrappers for `IO`, `Socket`, and related classes.


### Installation

Add this line to your application's Gemfile:

```ruby
```

```ruby
``` gem 'async-io'

```ruby
``` And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install async-io
```

### Usage

Basic echo server (from `spec/async/io/echo_spec.rb`):

```ruby
```

```ruby
``` require 'async/io'

```ruby
``` def echo_server(endpoint)
  Async do |task|
    # This is a synchronous block within the current task:
    endpoint.accept do |client|
      # This is an asynchronous block within the current reactor:
      data = client.read
      # This produces out-of-order responses.
      task.sleep(rand * 0.01)
      client.write(data.reverse)
      client.close_write
    end
  end
end

def echo_client(endpoint, data)
  Async do |task|
    endpoint.connect do |peer|
```ruby
```
peer.write(data)
peer.close_write

message = peer.read

puts "Sent #{data}, got response: #{message}"
end
end
end

Async do
endpoint = Async::IO::Endpoint.tcp('0.0.0.0', 9000)
server = echo_server(endpoint)

5.times.map do |i|
  echo_client(endpoint, "Hello World #{i}")
end.each(&:wait)

server.stop
end

```ruby
message = task.with_timeout(5) do
  begin
    peer.read
  rescue Async::TimeoutError
    nil # The timeout was triggered.
  end
end
```

Any `yield` operation can cause a timeout to trigger. Non-`async` functions might not timeout because they are outside the scope of `async`.

```ruby
peer.timeout = 1
```

### Timeouts

Timeouts add a temporal limit to the execution of your code. If the IO doesn't respond in time, it will fail. Timeouts are high level concerns and you generally shouldn't use them except at the very highest level of your program.

Any `yield` operation can cause a timeout to trigger. Non-`async` functions might not timeout because they are outside the scope of `async`.

#### Wrapper Timeouts

Asynchronous operations may block forever. You can assign a per-wrapper operation timeout duration. All asynchronous operations will be bounded by this timeout.

```ruby
peer.timeout = 1
```
The benefit of this approach is that it applies to all operations. Typically, this would be configured by the user, and set to something pretty high, e.g. 120 seconds.

### Reading Characters

This example shows how to read one character at a time as the user presses it on the keyboard, and echos it back out as uppercase:

```ruby
require 'async'
require 'async/io/stream'
require 'io/console'

$stdin.raw!
$stdin.echo = false

Async do |task|
  stdin = Async::IO::Stream.new(
    Async::IO::Generic.new($stdin)
  )

  while character = stdin.read(1)
    $stdout.write character.upcase
  end
end
```

### Deferred Buffering

`Async::IO::Stream.new(..., deferred:true)` creates a deferred stream which increases latency slightly, but reduces the number of total packets sent. It does this by combining all calls `Stream#flush` within a single iteration of the reactor. This is typically more useful on the client side, but can also be useful on the server side when individual packets have high latency. It should be preferable to send one 100 byte packet than 10x 10 byte packets.

Servers typically only deal with one request per iteration of the reactor so it's less useful. Clients which make multiple requests can benefit significantly e.g. HTTP/2 clients can merge many requests into a single packet. Because HTTP/2 recommends disabling Nagle's algorithm, this is often beneficial.

### Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request
## See Also

- [async](https://github.com/socketry/async) Asynchronous event-driven reactor.
- [async-websocket](https://github.com/socketry/async-websocket) Asynchronous client and server websockets.
- [async-dns](https://github.com/socketry/async-dns) Asynchronous DNS resolver and server.
- [async-rspec](https://github.com/socketry/async-rspec) Shared contexts for running async specs.
- [rubydns](https://github.com/ioquatix/rubydns) A easy to use Ruby DNS server.

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1.2130 kubernetes-kubectl 0.18.4

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## Motivation

- Copying files from Containers in a cluster
- Copying files from a local filesystem to Containers in a cluster

---

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster
Copy requires that *tar* be installed in the container image.

{ % endpanel % }  

{ % method % }
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is ``<path>``
- Remote file format is ``<pod-name>`,<path>``

{ % sample lang="yaml" % }

```bash
t kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

{ % endmethod % }

{ % method % }
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is ``<path>``
- Remote file format is ``<pod-name>`,<path>``

{ % sample lang="yaml" % }

```bash
t kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{ % endmethod % }

{ % method % }
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

{ % sample lang="yaml" % }

```bash
t kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.2131 rake 12.3.3

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/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it. If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

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1.2141 rsa 4.7.2

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1.2143 kubernetes 20.13.0

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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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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.
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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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https://github.com/golang/protobuf

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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

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

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tomb - support for clean goroutine termination in Go.

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package simulator

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        Key: "feature",
        Value: types.KeyValue{
            Key: "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
        }
    }
}
type LicenseManager struct {
    mo.LicenseManager
}

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

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

    return m
}

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

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

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

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

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

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

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

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

        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]

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

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

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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Feb, 2010

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{ % panel style="success", title="Providing Feedback" % }
- Copy files to and from Containers in a cluster

## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `/<path>`
- Remote file format is `<pod-name>:/path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `/<path>`
- Remote file format is `<pod-name>:/path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

### Specify the Container

---

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Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`\`

{ % sample lang="yaml" %}

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

{ % endmethod % }

{ % method %}

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\`<namespace>/`\`. 

- `\`<pod-namespace>/<pod-name>:<path>`\`

{ % sample lang="yaml" %}

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

{ % endmethod % }

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Protocol Buffers for Go with Gadgets

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

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package spec

// License information for the exposed API.

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

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

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package migration

import "fmt"

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

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

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

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1.2167 jackson-module-afterburner 2.9.10

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1.2169 curl 7.58.0-2ubuntu3.16
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============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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1.2170 cors 1.6.0

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1.2171 man-pages 4.15-1

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The following was received February 23,2000 From: "Linn, John" February 19,
2000

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package cloud

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

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

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{

// Automatically generated.
"bigtable/cmd/cbt/cbtdoc.go": true,

// BSD license, which is compatible, is embedded in the file.
"cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

"third_party/pkgsite/print_type.go": true,
"third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
    return err
}
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if skip[path] {
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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1.2177 python3-nose 1.3.7-3

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Gocheck - A rich testing framework for Go

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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<td>lib/interception/mach_override</td>
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1.2194 zlib 1.2.3
1.2194.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

fields:
  site: string
  author: root

1.2197 gopkg-in-yaml-v2 v2.2.4

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.2206 e2fsprogs 1.44.1 1ubuntu1.3

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*/

Index: tdba/tdb.c

===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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

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

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

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

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

From the original distribution:
# 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) \

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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Eclipse
The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

```
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
```

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

```
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
```

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

```
org.eclipse.jetty.toolchain:jetty-schemas
```

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.2211 liberror-perl 0.17025 1

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1.2217 go-difflib 1.0.0

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1.2218 viper 1.7.0

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1.2220 go-openapi-errors 0.19.2

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1.2223 pflag v1.0.5

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1.2226 x-net 0.0.0-20190923162816-aa69164e4478

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1.2227 uuid 3.4.0

1.2228 gotenv 1.2.0

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1.2229 snake-yaml 1.26

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# cookie-signature

Sign and unsign cookies.

## Example

```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsflZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.2231 evanphx-json-patch

4.5.0+incompatible

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1.2232 progress 1.2

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## 1.2233 on-finished 2.3.0

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## 1.2234 apache 2.4.29-1ubuntu4.20

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Doug MacEachern <dougm@cpan.org>

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This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x.y ...]
  New: directive URL "Menu text" [x.y ...]
  or: directive URL x.y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified
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- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation    July/August 1996
Misc bug fixes        May 1997
Submission to Apache Software Foundation    July 1997

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1.2245 fonts-lato 2.0-2

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Lato font family

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

Version 2.007; Latin+Cyrillic+Greek+IPA opensource

Created by: tyPoland Lukasz Dziedzic
Creation year: 2014

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Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.
In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Split between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

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

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**1.2253 libprelude 4.1.0 4**

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1.2255 sphinx 1.6.7-1ubuntu1

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1.2256 godbus 0.0.0-20180201030542-885f9cc04c9c

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

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

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
    }

    if len(licenses) != len(want) {
        t.Errorf("Expected %d licenses, got %d", len(want), len(licenses))
    }
    for i, l := range licenses {
        if !reflect.DeepEqual(l, want[i]) {
            t.Errorf("Unexpected license at index %d", i)
        }
    }
}

}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

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

HTMLURL *string `json:"html_url, omitempty"
Featured *bool `json:"featured, omitempty"
Description *string `json:"description, omitempty"
Category *string `json:"category, omitempty"
Implementation *string `json:"implementation, omitempty"
Required *[]string `json:"required, omitempty"
Permitted *[]string `json:"permitted, omitempty"
Forbidden *[]string `json:"forbidden, 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() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
   licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }
    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(req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, err

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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*/
/*
* SId: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $ */
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version {

/**
* Get the basic version string for the current Xalan release.
* Version String formatted like
* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
* Futurework: have this read version info from jar manifest.
* @return String denoting our current version
*/
public static String getVersion() {
    return getProduct() + "+" +getImplementationLanguage() + " +
    +getMajorVersionNum() + "+" +getReleaseVersionNum() + " +
    +((getDevelopmentVersionNum() > 0) ?
    ("D" +getDevelopmentVersionNum()) : ("" +getMaintenanceVersionNum()));
}

/**
* Print the processor version to the command line.
* @param argv command line arguments, unused.
* /
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct() {
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage() {
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum() {
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
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 */
/**
 * This is a special exception that is used to stop parsing when search for an element. For instance, when searching for xml:stylesheet PIs, it is used to stop the parse once the document element is found. @see StylesheetPIHandler @xsl.usage internal */

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 */

/*
* ID: Version.src 468654 2006-10-28 07:09:23Z minchau *
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.

* Futurework: have this read version info from jar manifest.
* @return String denoting our current version
*/

public static String getVersion()
{
    return getProduct() + "" + getImplementationLanguage() + "" +
           getMajorVersionNum() + "." + getReleaseVersionNum() + "." +
           (getDevelopmentVersionNum() > 0) ? 
              ("D" + getDevelopmentVersionNum()) : 
              ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
of new versions as external interfaces and behaviour may have changed.
*/

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 */
Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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 */


**
* Major version number.
* Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
* Clients should carefully consider the implications of new versions as external interfaces and behaviour

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* may have changed.
*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_html.properties
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*

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;
/*
* String representation of the expression being parsed.
*/
private String _expression;

/*
* Line number where this expression/pattern was declared.
*/
private int _lineNumber = 0;

/*
* Reference to the symbol table.
*/
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/*
* This method is similar to findNodeType(int, Object) except that it
* creates a StepPattern instead of just returning a node type. It also
* differs in the way it handles "[uri]::*" and "[uri]::*". The last two
* patterns are expanded as "*[namespace-uri() = 'uri']" and
* "[@*][namespace-uri() = 'uri']", respectively. This expansion considerably
* simplifies the grouping of patterns in the Mode class. For this
* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
* /

```java
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) { // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand [uri]:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }

                if (predicates.size() == 0) {
                    setPriority = true;
                    predicates.add(
                        new Predicate(
                            new EqualityExpr(Operators.EQ,}
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri)));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
    : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
    : _xslt.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }
    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) { // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1
            : _xslt.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (axis == Axis.NAMESPACE) {
                return (name.toString().equals("*")) ? -1
                : _xslt.registerNamespacePrefix(name);
            }
            if (name.getNamespace() == null) {
                final String local = name.getLocalPart();


if (local.equals("\*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
        : NodeTest.ELEMENT;
} else if (local.equals("@\*")) {
    return NodeTest.ATTRIBUTE;
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
    : _xsltc.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 *                  compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 *
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
return(result);
else
return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
_parser.reportError(0, error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(0, _lineNumber,
_expression);
_parser.reportError(0, err);
}

public void report_fatal_error(String message, Object info) {
// empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
final ParentLocationPath plp = (ParentLocationPath) rlp;
final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
return new ParentLocationPath(newrlp, plp.getStep());
}
else {
addError(new ErrorMsg(0, "XPathParser.insertStep"));
return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCendant);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
               {: RESULT = pattern; :}
               | EXPRESSION Expr:expr
               {: RESULT = expr; :};

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
               {: RESULT = lpp; :}
               | LocationPathPattern:lpp VBAR Pattern:p
               {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
               {: RESULT = new AbsolutePathPattern(null); :}
               | SLASH RelativePathPattern:rpp
               {: RESULT = new AbsolutePathPattern(rpp); :}
               | IdKeyPattern:ikp
               {: RESULT = ikp; :}
               | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
               {: RESULT = new ParentPattern(ikp, rpp); :}
               | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
               {: RESULT = new AncestorPattern(ikp, rpp); :}
               | DSLASH RelativePathPattern:rpp
               {: RESULT = new AncestorPattern(rpp); :}
               | RelativePathPattern:rpp
               {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
               {: RESULT = new IdPattern(l);
               parser.setHasIdCall(true);
               :}
               | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
               {: RESULT = new KeyPattern(l1, l2); :};
ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
    {: RESULT = sp; :}
    | StepPattern:sp SLASH RelativePathPattern:rpp
    {: RESULT = new ParentPattern(sp, rpp); :}
    | StepPattern:sp DSLASH RelativePathPattern:rpp
    {: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
    {: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}
    | NodeTestPattern:nt Predicates:pp
    {: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}
    | ProcessingInstructionPattern:pip
    {: RESULT = pip; :}
    | ProcessingInstructionPattern:pip Predicates:pp
    {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}
    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    {: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}
    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
    {: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}
    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    {: RESULT = pip; // TODO: report error if axis is attribute :}
    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    Predicates:pp
    {: // TODO: report error if axis is attribute :}
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
);

NodeTestPattern ::= NameTestPattern:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e);
:}
/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
    {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
    {: RESULT = ae; :}
    | OrExpr:oe OR AndExpr:ae
    {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
    {: RESULT = e; :}
    | AndExpr:ae AND EqualityExpr:ee
    {: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
    {: RESULT = re; :}
    | EqualityExpr:ee EQ RelationalExpr:re
    {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}
    | EqualityExpr:ee NE RelationalExpr:re
    {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
    {: RESULT = ae; :}
    | RelationalExpr:re LT AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}
    | RelationalExpr:re GT AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
    | RelationalExpr:re LE AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}
    | RelationalExpr:re GE AdditiveExpr:ae
    {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
    {: RESULT = me; :}
    | AdditiveExpr:ae PLUS MultiplicativeExpr:me
    {: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}
    | AdditiveExpr:ae MINUS MultiplicativeExpr:me
MultiplicativeExpr ::= UnaryExpr:ue
{ : RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{ : RESULT = ue; :}

| MINUS UnaryExpr:ue
{ : RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{ : RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{ : RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{ : RESULT = lp; :}

| FilterExpr:fexp
{ : RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{ : RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{ :
  // Expand '// into '/descendant-or-self::node()/' or
  // into '/descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
;
LocationPath ::= RelativeLocationPath:rlp
    { : RESULT = rlp; : }
| AbsoluteLocationPath:alp
    { : RESULT = alp; : }
RelativeLocationPath ::= Step:step
    { : RESULT = step; : }
| RelativeLocationPath:rlp SLASH Step:step
    { :
        if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
            RESULT = step;       // Remove '.' from the middle
        }
        else if (((Step) step).isAbbreviatedDot()) {
            RESULT = rlp;        // Remove '/.' from the end
        }
        else {
            RESULT =
                new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
    }
| AbbreviatedRelativeLocationPath:arlp
    { : RESULT = arlp; : }
AbsoluteLocationPath ::= SLASH
    { : RESULT = new AbsoluteLocationPath(); : }
| SLASH RelativeLocationPath:rlp
    { : RESULT = new AbsoluteLocationPath(rlp); : }
| AbbreviatedAbsoluteLocationPath:aalp
    { : RESULT = aalp; : }
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    { :
        final Step right = (Step)step;
        final int axis = right.getAxis();
        final int type = right.getNodeType();
    }
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {  
  // Compress '/child::E' into 'descendant::E' - if possible
  if (predicates == null) {
    right.setAxis(Axis.DESCENDANT);
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
      RESULT = right;
    } else {
      // Expand 'rlp/child::E' into 'rlp/descendant::E'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      RESULT = new ParentLocationPath(left, right);
    }
  } else {
    // Expand './/step' -> 'descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
  }
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step left = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  RESULT = new ParentLocationPath(left, right);
} else {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(mid, right);
  RESULT = new ParentLocationPath(left, ppl);
}

else (axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
} else {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DOM.NO_TYPE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
}
AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {
        // Expand '//' into '/descendant-or-self::node()/ or
        // into /descendant-or-self::*/
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
    }

Step ::= NodeTest:ntest
    {
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
        }
    }

[NodeTest:ntest Predicates:pp]
    {
        if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), pp);
        }
    }

[AxisSpecifier:axis NodeTest:ntest Predicates:pp]
    {
        RESULT = new Step(axis.intValue(), parser.findNodeType(axis.intValue(), ntest), pp);
    }
pp):

| AxisSpecifier::axis NodeTest::ntest
| : RESULT = new Step(axis.intValue(),
|   parser.findNodeType(axis.intValue(), ntest),
|   null);
| }

| AbbreviatedStep::abbrev
| : RESULT = abbrev; :};

AxisSpecifier ::= AxisName::an DCOLON
| : RESULT = an; :}

| ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
| : RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
| : RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
| : RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
| : RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
| : RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
| : RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
| : RESULT = new Integer(Axis.PARENT); :}
| PRECEDING
| {}
| RESULT = new Integer(Axis.PRECEDING);
| |
| PRECEDINGSIBLING
| {}
| RESULT = new Integer(Axis.PRECEDINGSIBLING);
| |
| SELF
| {}
| RESULT = new Integer(Axis.SELF);
| |

AbbreviatedStep ::= DOT
| {}
| RESULT = new Step(Axis.SELF, NodeTest.ANODE, null);
| |
| DDOT
| {}
| RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null);
| |

FilterExpr ::= PrimaryExpr:primary
| {}
| RESULT = primary;
| |
| PrimaryExpr:primary Predicates:pp
| {}
| RESULT = new FilterExpr(primary, pp);
| |

PrimaryExpr ::= VariableReference:vr
| {}
| RESULT = vr;
| |
| LPAREN Expr:ex RPAREN
| {}
| RESULT = ex;
| |

| Literal:string
| {}
| /*
| * If the string appears to have the syntax of a QName, store
| * namespace info in the literal expression. This is used for
| * element-available and function-available functions, among
| * others. Also, the default namespace must be ignored.
| */
| String namespace = null;
| final int index = string.lastIndexOf(':');
| if (index > 0) {
|   final String prefix = string.substring(0, index);
|   namespace = parser._symbolTable.lookupNamespace(prefix);
| }
| RESULT = (namespace == null) ? new LiteralExpr(string)
|   : new LiteralExpr(string, namespace);
| |
| INT:num
| {}
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
    RESULT = new RealExpr(value);
} else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}

REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

FunctionCall:fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{: // An empty qname prefix for a variable or parameter reference
   // should map to the null namespace and not the default URI.
   SyntaxTreeNode node = parser.lookupName(varName);
   if (node != null) {
       if (node instanceof Variable) {
           RESULT = new VariableRef((Variable)node);
       } else if (node instanceof Param) {
           RESULT = new ParameterRef((Param)node);
       } else {
           RESULT = new UnresolvedRef(varName);
       }
   } if (node == null) {
       RESULT = new UnresolvedRef(varName);
   }
} ;

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{:}
if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}

else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
|{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
}

NonemptyArgumentList ::= Argument:arg
{: Vector temp = new Vector();
temp.addElement(arg);
RESULT = temp;
:}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: RESULT = fname;
:};
VariableName ::= QName:vname
    {:
        RESULT = vname;
    :}

Argument ::= Expr:ex
    {:
        RESULT = ex; :}

NodeTest ::= NameTest:nt
    {:
        RESULT = nt; :}

    | NODE
        {:
            RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
        {:
            RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
        {:
            RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
        {:
            QName name = parser.getQNameIgnoreDefaultNs("name");
            Expression exp = new EqualityExpr(Operators.EQ,
                new NameCall(name),
                new LiteralExpr(l));
            Vector predicates = new Vector();
            predicates.addElement(new Predicate(exp));
            RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
        :}

    | PI
        {:
            RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
    {:
        RESULT = null; :}

    | QName:qn
        {:
            RESULT = qn; :}

QName ::= QNAME:qname
    {:
        RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

    | DIV
        {:
            RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |

| FOLLOWING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| : RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

| SELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("self"); : |

| ID |
| : RESULT = parser.getQNameIgnoreDefaultNs("id"); : |

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// is found, then throw a special exception in order to terminate

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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
package org.apache.xalan.xsltcompiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%

int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}

/**
 * If symbol is not followed by '::' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :(.
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('.
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
            (yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}
Symbol disambiguateOperator(int ss) throws Exception { 
    switch (last) { 
    case -1:  // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
    } 
    return newSymbol(ss); 
}
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSCHL:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%

%eofval{
    return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
    Exception
%yylexthrow}
Letter={BaseChar}|{Ideographic}
BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1\u30FA\u3105-\u312C\uAC00-\uD7A3]
Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]
CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]
Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-

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"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\n\r]+(" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"[" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\["[^\"]*\]" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\["[^\"]*\]" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+\."{Digit}+? { return newSymbol(sym.REAL, new Double(yytext())); }
\."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
\." { return newSymbol(sym.DOT); }
\([\-]?[NCName]:\)?[NCName] { return newSymbol(sym.QNAME, yytext()); }
\([\-]?[NCName]:\)?@\*" { return newSymbol(sym.QNAME, yytext()); }
\[ \t\n\r\f\] /* ignore white space. */ |
    throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/xpath.lex
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* to you under the Apache License, Version 2.0 (the "License");
*
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

class XSLProcessorVersion {

/**
 * Print the processor version to the command line.
 */

public static void main(String argv[]) {
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */

public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */

public static final String LANGUAGE = "Java";

/**
 * Major version number.
 */
* Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.

* Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

`/**`

`public static final int VERSION = @version.VERSION@;`

`/**`

* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg, implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.

`/**`

`public static final int RELEASE = @version.RELEASE@;`

`/**`

* Maintenance Drop Number.
* Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
* When missing, it designates the final and complete development drop for a release.

`/**`

`public static final int MAINTENANCE = @version.MINOR@;`

`/**`

* Development Drop Number.
* Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.

* Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

* Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
public static final int DEVELOPMENT = 0;

/**
 * Version String like "<CODE>&lt;B&gt;Xalan&lt;/B&gt; &lt;B&gt;Language&lt;/B&gt;
 * v.r[.dd] &lt;B&gt;D&lt;/B&gt;nn"&lt;/CODE&gt;.
 * Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT + " +LANGUAGE + "
    +VERSION + " +RELEASE + " +
    +(DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) :
    ("" + MAINTENANCE));

}
/*
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   * limitations under the License.
   */

// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/AVTPartXPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/XPathVisitable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/trace/EndSelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xpath/functions/FuncLang.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/trax/DOM2SAX.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/res/XResources_ka.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/Step.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/IntegerArray.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/objects/XString.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/axes/DescendantIterator.java
jar/org/apache/xalan/xslt/compiler/Output.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Closure.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/Utils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/TemplateList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/SelfIteratorNoPredicate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ru.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/InternalError.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/VoidType.java
jar/org/apache/xpath/functions/FuncCeiling.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTSchema.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLocalPart.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCallITemplate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorImport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LastCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeCounter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/Translet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectStack.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SAX2DOM.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/HasPositionalPredChecker.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Attributes.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/XPathVisitor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/XSLTErrorResources_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanTransformState.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePsuedo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/axes/FilterExprIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ErrorMessages_es.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ru.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Param.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/AttributeValueTemplate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/SlotAllocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/DOM2TO.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Number.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/MultiValuedNodeHeapIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ConcatCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.2276 goprotobuf 1.4.2

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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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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

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

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

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

done_testing;

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

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

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

$year;
}

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


1.2279 golang-genproto 0.0.0-20200526211855-cb27e3aa2013

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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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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.

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That's all there is to it!

1.2283 ruby-test-unit 3.2.5 1

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

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

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

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

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

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1.2284 debianutils 4.8.4

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

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ASN.1 library for Python
------------------------

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.
The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0

>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/compat/test_binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/compat/test_octets.py
Abstract Syntax Notation One (‘ASN.1’ <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

----------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions [here](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's [ProtoBuffers](https://developers.google.com/protocol-buffers/) or [FlatBuffers](https://google.github.io/flatbuffers/), for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

.. toctree::
   :maxdepth: 1
License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.
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### 1.2303 click 8.0.3

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```ini
[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

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* /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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Project-URL: Changes, https://click.palletsprojects.com/changes/
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
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\$ click\_

="""

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(f"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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- Source Code: https://github.com/pallets/click
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* /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 feature set 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
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.. _click-contrib: https://github.com/click-contrib/

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1.2306 spdx-license-ids 3.0.10

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### `require('spdx-license-ids')`

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### `require('spdx-license-ids/deprecated')`

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.2307 apt-utils 1.6.13

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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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1.2315 har-validator 5.1.5

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1.2318 go-grpc-prometheus 1.2.0

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Gocheck - A rich testing framework for Go

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

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https://github.com/golang/protobuf

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1.2321 gopkg-in-yaml-v2 v2.4.0

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1.2331 x-sys 0.0.0-20201223074533-0d417f636930

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

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

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
            }
        }
    })
}
return nil
}
}

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

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1.2333 scandir 1.10.0

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1.2334 mitchellh-mapstructure 1.3.3

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1.2335 follow-redirects 1.14.5

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1.2336 color-name 1.1.4

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1.2337 golang-lru 0.5.4

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1.2338 gophercloud 0.3.0

1.2338.1 Available under license:

package RESOURCE

import (
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.
type CreateResult struct {
  commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to determine if the request succeeded or failed.
type DeleteResult struct {
  gophercloud.ErrResult
}
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.

type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next   string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := r.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"
    }
}
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](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ 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:

```
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last
Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and
ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.
Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
code
package testing

import {
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

// ListResult provides a single page of RESOURCE results.
const ListResult = `
  
`

// GetResult provides a Get result.
const GetResult = `
  
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
  
`

// UpdateRequest provides the input to a 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")
    })
// 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
    }
}
// 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
}
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 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.

`/*
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 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.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.
Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect all of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

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

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

The following issues are examples of missing fields:

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

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in this 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"`
    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.
Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

================================
There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.2339 libsys-virt-perl 4.0.0-1

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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',
            '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',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.2347 workerpool 6.1.5

1.2347.1 Available under license :

/**
 * workerpool.js
 * https://github.com/josdejong/workerpool
 *
 * Offload tasks to a pool of workers on node.js and in the browser.
 *
 * @version 6.1.5
 * @date    2021-06-17
 *
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1.2348 go-jmespath 0.0.0-20180206201540-c2b33e8439af
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1.2349 x-crypto 0.0.0-202102220033148-5ea612d1eb83
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1.2350 netcat-openbsd 1.187-1ubuntu0.1

1.2351 libnpmfund 2.0.1
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1.2353 form3tech-oss-jwt-go

3.2.2+incompatible

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1.2354 libeatmydata 105-6

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That's all there is to it!

1.2366 apacheutils 2.4.29-1ubuntu4.20
1.2366.1 Available under license :
Apache-Test was originally developed by:

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Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:
   ImapMenu {none, formatted, semiformatted, unformatted}
   ImapDefault {error, nocontent, referer, menu, URL}
   ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
   Old: directive URL [x,y ...]
   New: directive URL "Menu text" [x,y ...]
        or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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import {
	"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
        }
    }
}
result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {
    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// ProductSKU
//
// * Status
//
// * KeyFingerprint
//
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
      Region: region,
      ServiceID: ServiceID,
      SigningName: "license-manager",
      OperationName: "ListReceivedLicenses",
    }
  }

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
  if params == nil {
    params = &CreateLicenseInput{
    }
  }

  result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
    addOperationCreateLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CreateLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CreateLicenseInput struct {

  // License beneficiary.
  //
  // This member is required.
  Beneficiary *string

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
/
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
/
// This member is required.
HomeRegion *string

// License issuer.
/
// This member is required.
Issuer *types.Issuer

// License name.
/
// This member is required.
LicenseName *string

// Product name.
/
// This member is required.
ProductName *string

// Product SKU.
/
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
/
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
return nil
}

return err
}

if err = aws middleware. Add RecordResponse Timing (stack); err != nil {
return err
}

if err = add ClientUser Agent (stack); err != nil {
return err
}

if err = smithyhttp. Add Error Close Response Body Middleware (stack); err != nil {
return err
}

if err = smithyhttp. Add Close Response Body Middleware (stack); err != nil {
return err
}

if err = add Op Create License Validation Middleware (stack); err != nil {
return err
}

if err = stack. Initialize. Add (new Service Metadata Middleware_op Create License (options.Region),
middleware. Before); err != nil {
return err
}

if err = add RequestID Retriever Middleware (stack); err != nil {
return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Checks out the specified license.
func c (*Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
if params == nil {
    params = &CheckoutLicenseInput{
}
}
result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    addOperationCheckoutLicenseMiddlewares)
if err != nil {
    return nil, err
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

}
type CheckoutLicenseOutput struct {
    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
        addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4Middleware.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}
type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPS signerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
        ServiceID:   ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
        addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string
}

type CheckInLicenseOutput struct {

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.2372 github.com/masterminds/vcs v1.13.1

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1.2375 python-werkzeug 0.14.1+dfsg1-1ubuntu0.1

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1.2376 gololang-org-x-sync v0.0.0-20201020160332-67f06af15bc9

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1.2377 mcuadros-go-version 0.0.0-20190308113854-92cdf37c5b75

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1.2378 xorm.io-builder 0.3.6

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1.2379 kubernetes-client 0.18.3

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BSON library for Go

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Protocol Buffers for Go with Gadgets

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    Name string `json:"name,omitempty"`
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2388 go-yaml 2.2.8

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1.2389 go-httpheader 0.2.1

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1.2390 golang-org-x-time v0.0.0-20210220033141-f8bda1e9f3ba

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1.2393 x-time-rate v0.0.0-20210611083556-38a9dc6acbc6

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1.2394 minipass-collect 1.0.2

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1.2398 libyaml 0.1.7

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1.2399 ipset 6.34 1

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1.2402 python3-idna 2.6-1

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Metadata-Version: 1.1
Name: idna
Version: 2.6
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:

```
.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(.)
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

    # Python 2
    >>> import idna
    >>> idna.encode(u'.')
    'xn--eckwd4c7c.xn--zckzah'
    >>> 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 2.6 or later, and Python 3.3 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.codec
    >>> 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.

```
.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen
```

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.

```
.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``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 `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 2.6+.

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:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

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```python
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")

main()
```

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 < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

main()
```
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': [
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        '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',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
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# 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/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/PatternGrammar.txt

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/pars.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/pgen.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/dist.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.6/Modules/_tkinter.c

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.6/Lib/distutils/command/bdist_wininst.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.8/Lib/lib2to3/pgen2/driver.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.6/Lib/lib2to3/pgen2/driver.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7/5/3.6/Lib/distutils/spawn.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_rpm.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_repr.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_exec.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pytree.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
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1.2416 kelseyhightower-envconfig 0.0.0-20180517194557-dd1402a4d99d

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1.2417 Kubernetes-cliruntime 0.18.0

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()
}
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `[
        {"key": "mit", "name": "MIT", "url": "https://api.github.com/licenses/mit"}
    ]
  }
})

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{
    License{
        Key: String("mit"),
        Name: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
    }
}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

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

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{ Key: String("mit"), Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL *string `json:"url",omitempty`
    HTMLURL *string `json:"html_url",omitempty`
    Featured *bool `json:"featured",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() ([]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)

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

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, err

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1.2419 x-sys 0.0.0-20191022100944-742c48ecaeb7

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1.2421 ntp 4.2.8p10+dfsg-5ubuntu7.3

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31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port

32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

33. [36] George Lindholm <lindholm@ics.uci.edu> SunOS 5.1 port

34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,

22, 36

38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port

39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

40. [43] Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port

41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo

47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

48. [52] Jack Sasportas <jack@innovativenet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

49. [53] Ray Schnitzler <schnitz@unipress.com> UnixWare1 port

50. [54] Michael Shields <shields@tembel.org> USNO clock driver

51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

52. [56] Harlan Stenn <sharlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port

54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues

57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
   TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
   validated HTML documents according to the HTML DTD

References

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Gocheck - A rich testing framework for Go

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

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http://github.com/gogo/protobuf

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

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1.2440 https-proxy-agent 5.0.0

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https-proxy-agent
================
### An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status][https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg]](https://github.com/TooTallNate/node-https-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
Install with `npm`:

```bash
$ npm install https-proxy-agent
```

Examples
---------

#### `https` module example

```js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});

#### `ws` WebSocket connection example

```js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);
```
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log('"message" event! %j %j', data, flags);
  socket.close();
});
```

API
---

```

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified `HTTP(s) proxy server` in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP CONNECT method]](CONNECT).

The `options` argument may either be a string URI of the proxy server to use, or an `options` object with more specific properties:

* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

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```
*/
```

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\@(#)bitstring.35.1 (Berkeley) 12/13/89 
```

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```
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```
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 `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 '&amp;' 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&amp;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/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-origin-tar-gz/cron-3.0pl1.orig/INSTALL
No license file was found, but licenses were detected in source scan.

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# * Distribute freely, except: don't remove my name from the source or

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-origin-tar-gz/cron-3.0pl1.orig/README
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-origin-tar-gz/cron-3.0pl1.orig/Makefile
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```
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 *
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 * documentation (don't take credit for my work), mark your changes (don't
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 * warrantee of any kind, express or implied, is included with this
 * software; use at your own risk, responsibility for damages (if any) to
 * anyone resulting from the use of this software rests entirely with the
 * user.
 *
 * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
 * I'll try to keep a version up to date. I can be reached as follows:
 * Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
 */

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8

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```
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 * THIS SOFTWARE IS PROVIDED `AS IS' AND WITHOUT ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
 *
 * @(#)bitstring.h5.2 (Berkeley) 4/4/90
 */
```
**1.2442 dropwizard-metrics-graphite 1.3.29**

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"
assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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"
}

1.2444 clang-6.0 6.0-1ubuntu2
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<th>Directory</th>
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<tr>
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</tr>
<tr>
<td>&lt;none yet&gt;</td>
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<tr>
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<tr>
<td>clang-tidy</td>
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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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contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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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.

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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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END OF TERMS AND CONDITIONS

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.

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

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.2447 aws-sdk-go-v2 1.0.6
1.2447.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsrmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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package licensemanager

import {
    "context"
    awscontrol "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // * ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  return err
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
            addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement
// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckoutLicenseInput struct {
    // Checkout type.
    // // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // License entitlements.
    // // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    // // This member is required.
    KeyFingerprint *string

    // Product SKU.
    // // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string
}

type CheckoutLicenseOutput struct {
    // Checkout type.
    CheckoutType types.CheckoutType
// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }

  if err != nil {
    return err
  }

  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }

  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }

  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }

  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }

  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }

  if err = addRetryMiddlewares(stack, options); err != nil {
return err
    }
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
    }
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
    }
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
    }
if err = addClientUserAgent(stack); err != nil {
    return err
    }
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
    }
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
    }
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
    }
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
        middleware.Before); err != nil {
    return err
    }
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
    }
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
    }
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
    }
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,

addOperationCheckoutBorrowLicenseMiddlewares()
if err != nil {
    return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil

}

type CheckoutBorrowLicenseInput struct {
    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
}

type CheckoutBorrowLicenseOutput struct {
    // Information about constraints.
    CheckoutMetadata []types.Metadata
// Allowed license entitlements.
EntitlementsAllowed [types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    return nil
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
package licensemanager

import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {
  // Filters to scope the results. The following filters are supported:
  //
  // *
  // Beneficiary
  //
  // * ProductSKU
  //
  // * KeyFingerprint
  //
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}
type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    return
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws smithy-go/transport/http"

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    return nil,
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    return
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.2448 qs 6.5.2
1.2448.1 Available under license:
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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
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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
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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This package contains a modified version of `ca-bundle.crt`:

```
c-a-bundle.crt -- Bundle of CA Root Certificates

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

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History
-------

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2458 go-playground-universal-translator

0.0.0-20170327191703-71201497bace

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1.2459 libgcrypt 1.8.1 4ubuntu1.2

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1.2466 libjson-perl 2.97001-1

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```perl
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s
", JSON::PP->VERSION );
printf( "JSON::XS %s
", JSON::XS->VERSION );

print "-----------------------------------\n";
print "->encode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
    {
        'JSON::PP' => sub { $pp->encode( $perl ) },
        'JSON::XS' => sub { $xs->encode( $perl ) },
    },
    'none'
);
```
cmpthese( $result );

print "-----------------------------------\n";
print ":pretty->canonical->encode()\n";
print "-----------------------------------\n"

$pp->pretty->canonical;
$xs->pretty->canonical;

$result = timethese( -$wanttime,
    { 
        'JSON::PP' => sub { $pp->encode( $perl ) },
        'JSON::XS' => sub { $xs->encode( $perl ) },
    },
    'none'
);
cmpthese( $result );

print "-----------------------------------\n";

__END__

=pod

=head1 SYNOPSIS

bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

=head1 LICENSE

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/1197361778_1630042302.22/0/libjson-perl-2-97001-orig-1-tar-gz/JSON-
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----------------------------------\n";
print "->decode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
               
               'JSON::PP' => sub { $pp->decode( $json ) },
               'JSON::XS' => sub { $xs->decode( $json ) },
               
               'none'
               
               );

cmpthese( $result );

print "-----------------------------------\n";

__END__
SYNOPSIS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

AUTHOR

makamaka

LICENSE

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

NAME

JSON::PP - JSON::XS compatible pure-Perl module.

SYNOPSIS

use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;
=head1 VERSION

2.97001

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder (as of RFC4627, which we know is obsolete but we still stick to; see below for an option to support part of RFC7159), and (almost) compatible to much faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as a fallback module when you use L<JSON> module without having installed JSON::XS.

Because of this fallback feature of JSON.pm, JSON::PP tries not to be more JavaScript-friendly than JSON::XS (i.e. not to escape extra characters such as U+2028 and U+2029 nor support RFC7159/ECMA-404), in order for you not to lose such JavaScript-friendliness silently when you use JSON.pm and install JSON::XS for speed or by accident. If you need JavaScript-friendly RFC7159-compliant pure perl module, try L<JSON::Tiny>, which is derived from L<Mojolicious> web framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json> and C<decode_json> are exported by default.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:
$json_text = JSON::PP->new->utf8->encode($perl_scalar)

Except being faster.

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

$perl_scalar = JSON::PP->new->utf8->decode($json_text)

Except being faster.

=head2 JSON::PP::is_bool

$is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or JSON::PP::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

=head2 new

$json = JSON::PP->new

Creates a new JSON::PP object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON::PP object again and thus calls can be chained:

my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]}) => {"a": [1, 2]}
If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native
Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

JSON::PP->new->ascii(1)->encode([chr 0x10401])
=> ['\ud801\udc01']

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```perl
JSON::PP->new->latin1->encode ("\x{89}\x{abc}")
=> ["\x{89}\u0abc"]  # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```perl
$json = $json->utf8([$enable])

$enabled = $json->get_utf8
```

If C<$enable> is true (or missing), then the C<encode> method will encode the JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

```perl
$json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.
$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

{"key" :"value"}

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.
If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[1, 2, <- this comma not normally allowed]

{"k1": "v1", "k2": "v2", <- this comma not normally allowed}

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally
allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
      # neither this one...
]
```

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between C</*> and C<*/> is a comment, after which more white-space and comments are allowed.

```
[
  1, /* this comment not allowed in JSON */
      /* neither this one... */
]
```

=back

=head2 canonical

```perl
$json = $json->canonical([$enable])

$enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

$JSON = $JSON->allow_nonref([$enable])

$enabled = $JSON->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>, resulting in an invalid JSON text:

```perl
JSON::PP->new->allow_nonref->encode ('Hello, World!')
=> "Hello, World!"
```

=head2 allow_unknown

$JSON = $JSON->allow_unknown([$enable])

$enabled = $JSON->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed
$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If C<$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 filter_json_object

$convert_blessed = $convert_blessed($coderef)

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```perl
my $js = JSON::PP->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('{"{}"}'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

$js = $js->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the C<filter_json_object> one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< $WIDGET{<id>} >> object:

```perl
# return whatever is in $WIDGET{5}:
JSON::PP
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
  })
  ->decode ('{"__widget__": 5}
```

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;
  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }
  { __widget__ => $self->{id} }
}

=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink

If C<$enable> is true (or missing), the string returned by C<encode> will be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions, but it will always try to save space at the expense of time.

If C<$enable> is false, then JSON::PP does nothing.

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$maximum_nesting_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<> or C<> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.
decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

JSON::PP->new->decode_prefix ("[1] the tail") => ([1], 3)

FLAGS FOR JSON::PP ONLY

The following flags and properties are for JSON::PP only. If you use any of these, you can't make your application run faster by replacing JSON::PP with JSON::XS. If you need these and also speed boost, try L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban, which supports some of these.

allow_singlequote

$new_json = $json->allow_singlequote([{$enable}]);
$enabled = $json->get_allow_singlequote

If C<$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain strings that begin and end with single quotation marks. C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>: I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

allow_barekey

$new_json = $json->allow_barekey([{$enable}]);
$enabled = $json->get_allow_barekey
If $enable$ is true (or missing), then $decode$ will accept invalid JSON texts that contain JSON objects whose names don't begin and end with quotation marks. $encode$ will not be affected in any way. I\textit{Be aware that this option makes you accept invalid JSON texts as if they were valid!}. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable$ is false (the default), then $decode$ will only accept valid JSON texts.

```perl
$json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```perl
$json = $json->allow_bignum($enable)
$enabled = $json->get_allow_bignum
```

If $enable$ is true (or missing), then $decode$ will convert big integers Perl cannot handle as integer into $Math::BigInt$ objects and convert floating numbers into $Math::BigFloat$ objects. $encode$ will convert $Math::BigInt$ and $Math::BigFloat$ objects into JSON numbers.

```perl
$json->allow_nonref->allow_bignum;
/bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.0000000000000000000000000001
```

See also $\textit{MAPPING}$.

=head2 loose

```perl
$json = $json->loose($enable)
$enabled = $json->get_loose
```

If $enable$ is true (or missing), then $decode$ will accept invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c] characters. $encode$ will not be affected in any way. I\textit{Be aware that this option makes you accept invalid JSON texts as if they were valid!}. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable$ is false (the default), then $decode$ will only accept valid JSON texts.

```perl
$json->loose->decode(qq|"abc
```
def escape_slash(
    $json = $json->escape_slash([$enable])
    $enabled = $json->get_escape_slash

    If C<$enable> is true (or missing), then C<encode> will explicitly
    escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of
    XSS (cross site scripting) that may be caused by C<< </script> >>
    in a JSON text, with the cost of bloating the size of JSON texts.

    This option may be useful when you embed JSON in HTML, but embedding
    arbitrary JSON in HTML (by some HTML template toolkit or by string
    interpolation) is risky in general. You must escape necessary
    characters in correct order, depending on the context.

    C<decode> will not be affected in anyway.

   indent_length

    $json = $json->indent_length($number_of_spaces)
    $length = $json->get_indent_length

    This option is only useful when you also enable C<indent> or C<prettify>.

    JSON::XS indents with three spaces when you C<encode> (if requested
    by C<indent> or C<prettify>), and the number cannot be changed.
    JSON::PP allows you to change/get the number of indent spaces with these
    mutator/accessor. The default number of spaces is three (the same as
    JSON::XS), and the acceptable range is from C<0> (no indentation;
    it'd be better to disable indentation by C<indent(0)>) to C<15>.

   sort_by

    $json = $json->sort_by($code_ref)
    $json = $json->sort_by($subroutine_name)

    If you just want to sort keys (names) in JSON objects when you
    C<encode>, enable C<canonical> option (see above) that allows you to
    sort object keys alphabetically.

    If you do need to sort non-alphabetically for whatever reasons,
    you can give a code reference (or a subroutine name) to C<sort_by>,
    then the argument will be passed to Perl’s C<sort> built-in function.

    As the sorting is done in the JSON::PP scope, you usually need to
    prepend C<JSON::PP::> to the subroutine name, and the special variables
C<$a> and C<$b> used in the subroutine used by C<sort> function.

Example:

```
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode(
    {name => 'CPAN', id => 1, href => 'http://cpan.org'}
);
# ["id":1,"name":"CPAN","href":"http://cpan.org"]
```

Note that C<sort_by> affects all the plain hashes in the data structure. If you need finer control, C<tie> necessary hashes with a module that implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>). C<canonical> and C<sort_by> don't affect the key order in C<tie>d hashes.

```
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
print $json->encode(%hash);
# ["name":"CPAN","id":1,"href":"http://cpan.org"] # order is kept
```

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

JSON::PP will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence if syntax errors.
The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");

=head2 incr_text

$value_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat>
objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become `JSON::PP::true` and `JSON::PP::false`, respectively. They are overloaded to act almost exactly like the numbers `1` and `0`. You can check whether a scalar is a JSON boolean by using the `JSON::PP::is_bool` function.

=item null

A JSON null atom becomes `undef` in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the `relaxed` setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the `canonical` flag and/or `sort_by` property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve readability.

```perl
to_json [0, JSON::PP::true]      # yields [false,true]
```

=item JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP> allows various ways of handling objects. See L<Object Serialisation>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```perl
# dump as number
encode_json [-3.0e17]                # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]                 # yields ["5"]

# undef becomes null
encode_json [undef]                   # yields [null]
```

You can force the type to be a string by stringifying it:

```perl
my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x = "";    # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often
You can force the type to be a number by numifying it:

```perl
my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.
```

You cannot currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to `encode` method (or `encode_json` function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to `decode` or `decode_json`, which JSON::PP considers tainted and doesn't trust). As JSON::PP doesn't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=head2 OBJECT SERIALISATION

As for Perl objects, JSON::PP only supports a pure JSON representation (without the ability to deserialise the object automatically again).

=head3 SERIALISATION

What happens when `JSON::PP` encounters a Perl object depends on the `allow_blessed`, `convert_blessed` and `allow_bignum` settings, which are used in this order:

=item 1. `convert_blessed` is enabled and the object has a `TO_JSON` method.
In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```perl
sub URI::TO_JSON {
    my ($uri) = @_;
    $uri->as_string
}
```

=item 2. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 3. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, C<JSON::PP> throws an exception.

=back

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.
Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and encodes them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets and encodings at the same time, which can be confusing.

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as an ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).
If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<uXXXX> then before.

Note that ISO-8859-1- I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>, L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives.
L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

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=head1 COPYRIGHT AND LICENSE
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=cut

Found in path(s):
* /opt/cola/permits/1197361778_1630042302.22/0/libjson-perl-2-97001-orig-1-tar-gz/JSON-2.97001/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, <lt>makamaka[at]cpan.org<gt>

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=cut

Found in path(s):
* /opt/cola/permits/1197361778_1630042302.22/0/libjson-perl-2-97001-orig-1-tar-gz/JSON-2.97001/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS
use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text = $json->encode( $perl_scalar );
perl_scalar = $json->decode( $json_text );

PRETTY_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

=head1 VERSION

2.97001

=head1 DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text as of RFC4627 (which we know is obsolete but we still stick to; see below for an option to support part of RFC7159) and vice versa. This module uses L<JSON::XS> by default, and when JSON::XS is not available, this module falls back on L<JSON::PP>, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND> when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the
variable like this (C<export> may be C<setenv>, C<set> and the likes, depending on your environment):

> export PERL_JSON_BACKEND=JSON::XS

If you prefer Cpanel::JSON::XS to JSON::XS, then:

> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides its backend as soon as it's loaded):

BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }  
use JSON;

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module:

=over

=item -support_by_pp

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }  
use JSON -support_by_pp;

my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.
use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless { foo =>'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<convert_blessed_universally> option may help, which tweaks C<encode> method of the backend to install C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that all the objects that don't have their own C<TO_JSON> method can fall back on the method in the C<UNIVERSAL> namespace. Note that you still need to enable C<convert_blessed> flag to actually encode objects in a data structure, and C<UNIVERSAL::TO_JSON> method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

When you don't want to import functional interfaces from a module, you usually supply C<()> to its C<use> statement.

use JSON (); # no functional interfaces

If you don't want to import functional interfaces, but you also want to use any of the above options, add C<no_export> to the option list.

# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
FUNCTIONAL INTERFACE

This section is taken from JSON::XS. `C<encode_json>` and `C<decode_json>` are exported by default.

This module also exports `C<to_json>` and `C<from_json>` for backward compatibility. These are slower, and may expect/generate different stuff from what `C<encode_json>` and `C<decode_json>` do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

**encode_json**

```perl
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```perl
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

**decode_json**

```perl
$perl_scalar = decode_json $json_text
```

The opposite of `C<encode_json>`: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```perl
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

**to_json**

```perl
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:
$json_text = JSON->new->encode($perl_scalar)

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what C<to_json> expects/generates (see C<ENCODING/ CODESET FLAG NOTES> for details).

$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

=head2 from_json

$perl_scalar = from_json($json_text[, $optional_hashref])

The opposite of C<to_json>: expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

$perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but that may change what C<from_json> expects/generates (see C<ENCODING/ CODESET FLAG NOTES> for details).

$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)

=head2 JSON::is_bool

$\text{is\_boolean} = JSON::is\_bool($\text{scalar})

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.
$json = JSON->new

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled>.

The mutators for flags all return the backend object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

$json = $json->ascii([$enable])
$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

$json = $json->latin1([$enable])
$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters...
outside the code range C<0..255>. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If C<$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```perl
JSON->new->latin1->encode ("\x{89}\x{abc}")
=> ["\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

If C<$enable> is true (or missing), then the C<encode> method will encode the JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for byte-wise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
@jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $json_text);

=head2 pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

{"key":"value"}

=head2 space_after
$json = $json->space_after(["$enable"])  
$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra  
optional space after the C:<>: separating keys from values in JSON objects  
and extra whitespace after the C:<,> separating key-value pairs and array  
members.

If C<$enable> is false, then the C<encode> method will not add any extra  
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

    {"key": "value"}

=head2 relaxed

$json = $json->relaxed(["$enable"])  
$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some  
extensions to normal JSON syntax (see below). C<encode> will not be  
affected in anyway. !Be aware that this option makes you accept invalid  
JSON texts as if they were valid!>. I suggest only to use this option to  
parse application-specific files written by humans (configuration files,  
resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept  
valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON !separates> array elements and key-value pairs with commas. This  
can be annoying if you write JSON texts manually and want to be able to  
quickly append elements, so this extension accepts comma at the end of  
such items not just between them:

    [  
      1,  
      2, <- this comma not normally allowed
    ]
Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[  
  1, # this comment not allowed in JSON
     # neither this one...
]
```

=head2 canonical

$js\text{on} = \text{\$json->canonical}([\$enable])

$\text{enabled} = \text{\$json->get\_canonical}

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow\_nonref

$\text{json} = \text{\$json->allow\_nonref}([\$enable])

$\text{enabled} = \text{\$json->get\_allow\_nonref}
If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>, resulting in an invalid JSON text:

```
JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"
```

=head2 allow_unknown

$json = $json->allow_unknown ($[enable])

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will not throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by C<allow_nonref>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed ($[enable])

$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert.
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$\text{json} = \text{json}\rightarrow\text{convert\_blessed}([\text{enable}])

$\text{enabled} = \text{json}\rightarrow\text{get\_convert\_blessed}

See L<OBJECT SERIALISATION> for details.

If C<$\text{enable}$> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO\_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO\_JSON> method may safely call die if it wants. If C<TO\_JSON> returns other blessed objects, those will be handled in the same way. C<TO\_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO\_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to\_json> function or method.

If C<$\text{enable}$> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 filter_json_object

$\text{json} = \text{json}\rightarrow\text{filter\_json\_object}([\text{coderef}])

When C<$\text{coderef}$> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$\text{coderef}$> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('{"}\'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2\}');

=head2 filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<_class_whatever__>, or
C<_$dollars_are_rarely_used__$> or C<ugly_brace_placement>, or even
things like C<_class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET[<id>] >> object:

# return whatever is in $WIDGET[5]:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
   $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5}')
# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id.;
        $WIDGET{ $self->{id} } = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{}> or C<> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

=head2 max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).
If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

JSON->new->decode_prefix ("[1] the tail")
=> ([1], 3)

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

$backend = $json->backend

Since 2.92, C<backend> method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use C<isa>, instead of string comparison.
$boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

=head2 is_pp

$boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

=head2 property

$settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

$json = $json->property('utf8' => 1)
$value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

This module will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse
$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ("[5][7][1.2]");

=head2 incr_text

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.
That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.
=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.
A JSON null atom becomes C<undef> in Perl.

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

Perl array references become JSON arrays.

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

```perl
encode_json [0,JSON::true] # yields [false,true]
```

These special values become JSON true and JSON false values,
respectively. You can also use C<$1> and C<$0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS> allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [-3.0e17]                # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]                 # yields ["5"]

# undef becomes null
encode_json [undef]                   # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x .= "";   # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as
infinites or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=head2 OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the C<allow_blessed> and C<convert_blessed> settings, which are used in this order:

=over 4

=item 1. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

    sub URI::TO_JSON {
        my ($uri) = @_;
        $uri->as_string
    }

=item 2. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 3. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.
The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "/(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.
The \texttt{C<utf8>} flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item \texttt{C<latin1> or C<ascii>} flags enabled

With \texttt{C<latin1>} (or \texttt{C<ascii>}) enabled, \texttt{C<encode>} will escape characters with ordinal values $> 255$ ($> 127$ with \texttt{C<ascii>}) and encode the remaining characters as specified by the \texttt{C<utf8>} flag.

If \texttt{C<utf8>} is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values $< 256$ is the same thing as an ISO-8859-1 string, and a Unicode string with all character values $< 128$ is the same thing as an ASCII string in Perl).

If \texttt{C<utf8>} is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C\texttt{<uXXXX>} then before.

Note that ISO-8859-1-\texttt{I<encoded>} strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 \texttt{I<codeset>} being a subset of Unicode), while ASCII is.

Surprisingly, \texttt{C<decode>} will ignore these flags and so treat all input values as governed by the \texttt{C<utf8>} flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither \texttt{C<latin1>} nor \texttt{C<ascii>} are incompatible with the \texttt{C<utf8>} flag - they only govern when the JSON output engine escapes a character or not.

The main use for \texttt{C<latin1>} is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for \texttt{C<ascii>} is to force the output to not contain characters with values $> 127$, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=head1 BACKWARD INCOMPATIBILITY
Since version 2.90, stringification (and string comparison) for
C<JSON::true> and C<JSON::false> has not been overloaded. It shouldn't
matter as long as you treat them as boolean values, but a code that
expects they are stringified as "true" or "false" doesn't work as
you have expected any more.

    if (JSON::true eq 'true') {  # now fails

        print "The result is $JSON::true now."; # => The result is 1 now.

    }

And now these boolean values don't inherit JSON::Boolean, either.
When you need to test a value is a JSON boolean value or not, use
C<JSON::is_bool> function, instead of testing the value inherits
a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

=over 4

=item https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON

=item https://github.com/makamaka/JSON/issues

=back

Please report bugs and feature requests on decoding/encoding
and boolean behaviors to the author of the backend module you
are using.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.

L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.
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NAME
JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

DESCRIPTION
This module is a thin wrapper for JSON::XS-compatible modules with
a few additional features. All the backend modules convert a Perl
data structure to a JSON text as of RFC4627 (which we know is
obsolete but we still stick to; see below for an option to support
part of RFC7159) and vice versa. This module uses JSON::XS by
default, and when JSON::XS is not available, this module falls
back on JSON::PP, which is in the Perl core since 5.14. If
JSON::PP is not available either, this module then falls back on
JSON::backportPP (which is actually JSON::PP in a different .pm
file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND
This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

> export PERL_JSON_BACKEND=JSON::XS

If you prefer Cpanel::JSON::XS to JSON::XS, then:

> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; } use JSON;

USING OPTIONAL FEATURES
There are a few options you can set when you "use" this module:

-sUPPORT_BY_PP
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");
With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

-codevert_blessed_universally
  use JSON -convert_blessed_universally;

  my $json = JSON->new->allow_nonref->convert_blessed;
  my $object = bless {foo => 'bar'}, 'Foo';
  $json->encode($object); # => {"foo":"bar"}

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose, 
-convert_blessed_universally option may help, which tweaks "encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are
not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export
When you don't want to import functional interfaces from a module, you usually supply "()" to its "use" statement.

use JSON (); # no functional interfaces

If you don't want to import functional interfaces, but you also want to use any of the above options, add "-no_export" to the option list.

# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;

FUNCTIONAL INTERFACE
This section is taken from JSON::XS. "encode_json" and "decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward compatibility. These are slower, and may expect/generate different stuff from what "encode_json" and "decode_json" do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

encode_json
$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

$json_text = JSON->new->utf8->encode($perl_scalar)

Except being faster.

decode_json
$perl_scalar = decode_json $json_text

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.
This function call is functionally identical to:

```perl
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

to_json

```perl
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```perl
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```perl
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```perl
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```perl
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```perl
$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```perl
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl.
strings.

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE
This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

new
$json = JSON->new

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default *disabled*.

The mutators for flags all return the backend object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {“a”: [1, 2]}

ascii
$json = $json->ascii($enable)

$enable = $json->get_ascii

If $enable is true (or missing), then the "encode" method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.
If $enable is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

If $enable is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding.
families, as described in RFC4627.

If $enable is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.
If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

```
{"key": "value"}
```

**space_after**

```php
$json = $json->space_after([$enable])

$enabled = $json->get_space_after
```

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value"}
```

**relaxed**

```php
$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed
```

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.
Currently accepted extensions are:

* list items can have an end-comma

  JSON *separates* array elements and key-value pairs with
  commas. This can be annoying if you write JSON texts manually
  and want to be able to quickly append elements, so this
  extension accepts comma at the end of such items not just
  between them:

  
  
  [  
  
  1,  
  2, <- this comma not normally allowed  
  ]  
  
  
  {  
  k1": "v1",  
  k2": "v2", <- this comma not normally allowed  
  }

* shell-style '#'-comments

  Whenever JSON allows whitespace, shell-style comments are
  additionally allowed. They are terminated by the first
  carriage-return or line-feed character, after which more
  white-space and comments are allowed.

  
  [  
  1, # this comment not allowed in JSON  
  # neither this one...  
  ]

canonical

$json = $json->canonical($enable)

$enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will
output JSON objects by sorting their keys. This is adding a
comparatively high overhead.

If $enable is false, then the "encode" method will output
key-value pairs in the order Perl stores them (which will likely
change between runs of the same script, and can change even within
the same run from 5.18 onwards).

This option is useful if you want the same data structure to be
encoded as the same JSON text (given the same overall settings).
If it is disabled, the same hash might be encoded differently even
if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

allow_nonref

    $json = $json->allow_nonref([$enable])

    $enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled "allow_nonref", resulting in an invalid JSON text:

    JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"

allow_unknown

    $json = $json->allow_unknown([$enable])

    $enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

    $json = $json->allow_blessed([$enable])
$enabled = $json->get_allow_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to_json" function or method.

If $enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object

$json = $json->filter_json_object([$coderef])

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single
scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```perl
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]');  # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

**filter_json_single_key_object**

```perl
$js = $js->filter_json_single_key_object($key => $coderef)
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk
of clashing with real hashes.

Example, decode JSON objects of the form "{"__widget__": <id>}" into the corresponding $WIDGET{<id>} object:

```
# return whatever is in $WIDGET{5}:
JSON
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
      $WIDGET{ $_[0] }
  })
  ->decode ('{"__widget__": 5}')
```

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "[" or "]" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size
$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

    JSON->new->decode_prefix ("[1] the tail")
    => ([1], 3)

ADDITIONAL METHODS

The following methods are for this module only.

backend

$backend = $json->backend

Since 2.92, "backend" method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits
JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

\[\text{is\_xs} \quad \text{is\_pp}\]

\[\text{$boolean = $json->is\_xs}\]

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

\[\text{is\_pp}\]

\[\text{$boolean = $json->is\_pp}\]

Returns true if the backend inherits JSON::PP.

\[\text{property}\]

\[\text{$settings = $json->property()}\]

Returns a reference to a hash that holds all the common flag settings.

\[\text{$json = $json->property('utf8' => 1)}\]
\[\text{$value = $json->property('utf8') # 1}\]

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won’t stop as early as the full parser, for example, it doesn’t detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence
if syntax errors.

The following methods implement this incremental parser.

**incr_parse**

```perl
$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```perl
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

**incr_text**

```perl
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a
preceding call to "incr_parse" in *scalar context* successfully
returned an object. Under all other circumstances you must not
call this function (I mean it, although in simple tests it might
actually work, it *will* fail under real world conditions). As a
special exception, you can also call this method before having
parsed anything.

That means you can only use this function to look at or manipulate
text before or after complete JSON objects, not while the parser
is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text
after a JSON object or b) parsing multiple JSON objects separated
by non-JSON text (such as commas).

incr_skip
   $json->incr_skip

This will reset the state of the incremental parser and will
remove the parsed text from the input buffer so far. This is
useful after "incr_parse" died, in which case the input buffer and
incremental parser state is left unchanged, to skip the text
parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse
error occurred is removed.

incr_reset
   $json->incr_reset

This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and
want to ignore any trailing data, which means you have to reset
the parser after each successful decode.

MAPPING
Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to
JSON values and vice versa. These mappings are designed to "do the
right thing" in most circumstances automatically, preserving
round-tripping characteristics (what you put in comes out as
something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase *perl* refers to the Perl interpreter, while uppercase
*Perl* refers to the abstract Perl language itself.

**JSON -> PERL**

**object**

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

**array**

A JSON array becomes a reference to an array in Perl.

**string**

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

**number**

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

**true, false**

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like
the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null

A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*"")

As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

array references

Perl array references become JSON arrays.

other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

    encode_json [0,JSON::true]    # yields [false,true]

JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

blessed objects

Blessed objects are not directly representable in JSON, but "JSON::XS" allows various ways of handling objects. See
simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]  # yields [-3e+17]
    my $value = 5; encode_json [$value]  # yields [5]

    # used as string, so dump as string
    print $value;
    encode_json [$value]  # yields ["5"]

    # undef becomes null
    encode_json [undef]    # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1;  # some variable containing a number
    "$x"
    $x .= ";    # another, more awkward way to stringify
    print $x;    # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3";  # some variable containing a string
    $x += 0;     # numify it, ensuring it will be dumped as a number
    $x *= 1;     # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION
As for Perl objects, this module only supports a pure JSON
representation (without the ability to deserialise the object automatically again).

SERIALIZATION
What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.
   In this case, the "TO_JSON" method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

   For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

   ```perl
   sub URI::TO_JSON {
     my ($uri) = @_;
     $uri->as_string
   }
   ```

2. "allow_blessed" is enabled.
   The object will be serialised as a JSON null value.

3. none of the above
   If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES
This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii". There seems to be some confusion on what these do, so here is a short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that is, texts encoded with any combination
of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and encodes them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets and encodings at the same time, which can be confusing.

"utf8" flag disabled
   When "utf8" is disabled (the default), then "encode"/"decode" generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).
   This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

"utf8" flag enabled
   If the "utf8"-flag is enabled, "encode"/"decode" will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.
   The "utf8" flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled
   With "latin1" (or "ascii") enabled, "encode" will escape characters with ordinal values > 255 (> 127 with "ascii") and encode the remaining characters as specified by the "utf8" flag.
   If "utf8" is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of
Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

**BACKWARD INCOMPATIBILITY**

Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```perl
if (JSON::true eq 'true') {  # now fails
```
print "The result is $JSON::true now."; # => The result is 1 now.

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool" function, instead of testing the value inherits a particular boolean class or not.

BUGS
Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON
https://github.com/makamaka/JSON/issues

Please report bugs and feature requests on decoding/encoding and boolean behaviors to the author of the backend module you are using.

SEE ALSO
JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

AUTHOR
Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6
DESCRIPTION

JSON::PP calls internally.

AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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---
abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
built_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: JSON
no_index:
directory:
  - t
  - inc
recommends:
  JSON::XS: '2.34'
requires:
  Test::More: '0'
resources:
repository: https://github.com/makamaka/JSON
version: '2.97001'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

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1.2467 aec v1.0.0
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# node-libpq

[!Build Status](https://travis-ci.org/brianc/node-libpq.svg?branch=master)](https://travis-ci.org/brianc/node-libpq)

Node native bindings to the PostgreSQL [libpq](http://www.postgresql.org/docs/9.3/interactive/libpq.html) C client library. This module attempts to mirror _as closely as possible_ the C API provided by libpq and provides the absolute minimum level of abstraction. It is intended to be extremely low level and allow you the same access as you would have to libpq directly from C, except in node.js! The obvious trade-off for being "close to the metal" is having to use a very "c style" API in JavaScript.

If you have a good understanding of libpq or used it before hopefully the methods within node-libpq will be familiar; otherwise, you should probably spend some time reading [the official libpq C library](http://www.postgresql.org/docs/9.3/interactive/libpq.html)
documentation](http://www.postgresql.org/docs/9.3/interactive/libpq.html) to become a bit familiar. Referencing the libpq documentation directly should also provide you with more insight into the methods here. I will do my best to explain any differences from the C code for each method.

I am also building some [higher level abstractions](https://github.com/brianc/node-pg-native) to eventually replace the `pg.native` portion of node-postgres. They should help as reference material.

This module relies heavily on [nan](https://github.com/rvagg/nan) and wouldn't really be possible without it. Mucho thanks to the node-nan team.

### install

You need libpq installed & the `pg_config` program should be in your path. You also need [node-gyp](https://github.com/TooTallNate/node-gyp) installed.

```bash
$ npm install libpq
```

### use

```js
var Libpq = require('libpq');
var pq = new Libpq();
```

### API

#### connection functions

Libpq provides a few different connection functions, some of which are "not preferred" anymore. I've opted to simplify this interface a bit into a single __async__ and single __sync__ connection function. The function accepts an connection string formatted as outlined [in this documentation in section 31.1.1](http://www.postgresql.org/docs/9.3/static/libpq-connect.html). If the parameters are not supplied, libpq will automatically use environment variables, a pgpass file, and other options. Consult the libpq documentation for a better rundown of all the ways it tries to determine your connection parameters.

I personally __always__ connect with environment variables and skip supplying the optional `connectionParams`. Easier, more 12 factor app-ish, and you never risk hard coding any passwords. YMMV. :smile:

`pq.connect([connectionParams:string], callback:function)`

Asyneronously attempts to connect to the postgres server.

- `connectionParams` is an optional string
- `callback` is mandatory. It is called when the connection has successfully been established.

__async__ Connects to a PostgreSQL backend server process.
This function actually calls the `PQconnectdb` blocking connection method in a background thread within node's internal thread-pool. There is a way to do non-blocking network I/O for some of the connecting with libpq directly, but it still blocks when your local file system looking for config files, SSL certificates, .pgpass file, and doing possible dns resolution. Because of this, the best way to get _fully_ non-blocking is just use `libuv_queue_work` and let node do it’s magic and so that's what I do. This function _does not block_.

##### `pq.connectSync([connectionParams:string])`

Attempts to connect to a PostgreSQL server. __BLOCKS__ until it either succeeds, or fails. If it fails it will throw an exception.

- `connectionParams` is an optional string

##### `pq.finish()`

Disconnects from the backend and cleans up all memory used by the libpq connection.

### Connection Status Functions

##### `pq.errorMessage():string`

Retrieves the last error message from the connection. This is intended to be used after most functions which return an error code to get more detailed error information about the connection. You can also check this _before_ issuing queries to see if your connection has been lost.

##### `pq.socket():int`

Returns an int representing the file descriptor for the socket used internally by the connection

### Sync Command Execution Functions

##### `pq.exec(commandText:string)`

__sync__ sends a command to the backend and blocks until a result is received.

- `commandText` is a required string of the query.

##### `pq.execParams(commandText:string, parameters:array[string])`

__sync__ sends a command and parameters to the backend and blocks until a result is received.

- `commandText` is a required string of the query.
- `parameters` is a required array of string values corresponding to each parameter in the commandText.

##### `pq.prepare(statementName:string, commandText:string, nParams:int)`

__sync__ sends a named statement to the server to be prepared for later execution. blocks until a result from the prepare operation is received.
- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

```
##### `pq.execPrepared(statementName:string, parameters:array[string])`
  __sync__ sends a command to the server to execute a previously prepared statement. blocks until the results are returned.

- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.
```

### Async Command Execution Functions

In libpq the async command execution functions _only_ dispatch a request to the backend to run a query. They do not start result fetching on their own. Because libpq is a C api there is a somewhat complicated "dance" to retrieve the result information in a non-blocking way. node-libpq attempts to do as little as possible to abstract over this; therefore, the following functions are only part of the story. For a complete tutorial on how to dispatch & retrieve results from libpq in an async way you can [view the complete approach here](https://github.com/brianc/node-pg-native/blob/master/index.js#L105)

```
##### `pq.sendQuery(commandText:string):boolean`
  __async__ sends a query to the server to be processed.

- `commandText` is a required string containing the query text.

Returns `true` if the command was sent successfully or `false` if it failed to send.

##### `pq.sendQueryParams(commandText:string, parameters:array[string]):boolean`
  __async__ sends a query to the server to be processed.

- `commandText` is a required string containing the query text.
- `parameters` is an array of parameters as strings used in the parameterized query.

Returns `true` if the command was sent successfully or `false` if it failed to send.

##### `pq.sendPrepare(statementName:string, commandText:string, nParams:int):boolean`
  __async__ sends a request to the backend to prepare a named statement with the given name.

- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

Returns `true` if the command was sent successfully or `false` if it failed to send.

##### `pq.sendQueryPrepared(statementName:string, parameters:array[string]):boolean`
  __async__ sends a request to execute a previously prepared statement.
```
- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.

```sql
### pq.getResult():boolean
Parses received data from the server into a `PGresult` struct and sets a pointer internally to the connection object to this result. __warning__: this function will __block__ if libpq is waiting on async results to be returned from the server. Call `pq.isBusy()` to determine if this command will block.

Returns `true` if libpq was able to read buffered data & parse a result object. Returns `false` if there are no results waiting to be parsed. Generally doing async style queries you'll call this repeatedly until it returns false and then use the result accessor methods to pull results out of the current result set.

### Result accessor functions

After a command is run in either sync or async mode & the results have been received, node-libpq stores the results internally and provides you access to the results via the standard libpq methods. The difference here is libpq will return a pointer to a PGresult structure which you access via libpq functions, but node-libpq stores the most recent result within itself and passes the opaque PGresult structure to the libpq methods. This is to avoid passing around a whole bunch of pointers to unmanaged memory and keeps the burden of properly allocating and freeing memory within node-libpq.

```js
### `pq.resultStatus():string`

Returns either `PGRES_COMMAND_OK` or `PGRES_FATAL_ERROR` depending on the status of the last executed command.

```js
### `pq.resultErrorMessage():string`

Retrieves the error message from the result. This will return `null` if the result does not have an error.

```js
### `pq.resultErrorFields():object`

Retrieves detailed error information from the current result object. Very similar to `PQresultErrorField()` except instead of passing a fieldCode and retrieving a single field, retrieves all fields from the error at once on a single object. The object returned is a simple hash, _not_ an instance of an error object. Example: if you wanted to access `PG_DIAG_MESSAGE_DETAIL` you would do the following:

```js
console.log(pq.errorFields().messageDetail)
```

```js
### `pq.clear()`

Manually frees the memory associated with a `PGresult` pointer. Generally this is called for you, but if you absolutely want to free the pointer yourself, you can.

```js
### `pq.ntuples():int`
```
Retrieve the number of tuples (rows) from the result.

```c
pq.nfields():int
```

Retrieve the number of fields (columns) from the result.

```c
pq.fname(fieldNumber:int):string
```

Retrieve the name of the field (column) at the given offset. Offset starts at 0.

```c
pq.fname(fieldNumber:int):int
```

Retrieve the `Oid` of the field (column) at the given offset. Offset starts at 0.

```c
pq.getvalue(tupleNumber:int, fieldNumber:int):string
```

Retrieve the text value at a given tuple (row) and field (column) offset. Both offsets start at 0. A null value is returned as the empty string `''`.

```c
pq.getisnull(tupleNumber:int, fieldNumber:int):boolean
```

Returns `true` if the value at the given offsets is actually `null`. Otherwise returns `false`. This is because `pq.getvalue()` returns an empty string for both an actual empty string and for a `null` value. Weird, huh?

```c
pq.cmdStatus():string
```

Returns the status string associated with a result. Something akin to `INSERT 3 0` if you inserted 3 rows.

```c
pq.cmdTuples():string
```

Returns the number of tuples (rows) affected by the command. Even though this is a number, it is returned as a string to mirror libpq's behavior.

### Async socket access

These functions don’t have a direct match within libpq. They exist to allow you to monitor the readability or writability of the libpq socket based on your platforms equivalent to `select()`. This allows you to perform async I/O completely from JavaScript.

```c
pq.startReader()
```

This uses libuv to start a read watcher on the socket open to the backend. As soon as this socket becomes readable the `pq` instance will emit a `readable` event. It is up to you to call `pq.consumeInput()` one or more times to clear this read notification or it will continue to emit read events over and over and over. The exact flow is outlined [here] under the documentation for `PQisBusy`.

```c
pq.stopReader()
```
Tells libuv to stop the read watcher on the connection socket.

##### `pq.writable(callback:function)`

Call this to make sure the socket has flushed all data to the operating system. Once the socket is writable, your callback will be called. Usefully when using `PQsetNonBlocking` and `PQflush` for async writing.

### More async methods

These are all documented in detail within the [libpq documentation](http://www.postgresql.org/docs/9.3/static/libpq-async.html) and function almost identically.

##### `pq.consumeInput():boolean`

Reads waiting data from the socket. If the socket is not readable and you call this it will __block__ so be careful and only call it within the 'readable' callback for the most part.

Returns `true` if data was read. Returns `false` if there was an error. You can access error details with `pq.errorMessage()`.

##### `pq.isBusy():boolean`

Returns `true` if calling `pq.consumeInput()` would block waiting for more data. Returns `false` if all data has been read from the socket. Once this returns `false` it is safe to call `pq.getResult()`.

##### `pq.setNonBlocking(nonBlocking:boolean):boolean`

Toggle the socket blocking on _write_. Returns `true` if the socket's state was successfully toggled. Returns `false` if there was an error.

- `nonBlocking` is `true` to set the connection to use non-blocking writes. `false` to use blocking writes.

##### `pq.flush():int`

Flushes buffered data to the socket. Returns `1` if socket is not write-ready at which case you should call `pq.writable` with a callback and wait for the socket to be writable and then call `pq.flush()` again. Returns `0` if all data was flushed. Returns `-1` if there was an error.

### listen/notify

##### `pq.notifies():object`

Checks for `NOTIFY` messages that have come in. If any have been received they will be in the following format:

```js
var msg = {
    relname: 'name of channel',
    extra: 'message passed to notify command',

```
### COPY IN/OUT

```
`pq.putCopyData(buffer: Buffer): int`
```

After issuing a successful command like `COPY table FROM stdin` you can start putting buffers directly into the database with this function.

- `buffer` is a required node buffer of text data such as `Buffer('column1\tc\ncolumn2\n')`

Returns `1` if sent successfully. Returns `0` if the command would block (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

```
`pq.putCopyEnd([errorMessage: string])`
```

Signals the backed your copy procedure is complete. If you pass `errorMessage` it will be sent to the backend and effectively cancel the copy operation.

- `errorMessage` is an _optional_ string you can pass to cancel the copy operation.

Returns `1` if sent successfully. Returns `0` if the command would block (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

```
`pq.getCopyData(async: boolean): Buffer or int`
```

After issuing a successfully command like `COPY table TO stdout` gets copy data from the connection.

Returns a node buffer if there is data available.

Returns `0` if the copy is still in progress (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if the copy is completed. Returns `-2` if there was an error.

- `async` is a boolean. Pass `false` to __block__ waiting for data from the backend. _defaults to `false`_

### Misc Functions

```
`pq.escapeLiteral(input: string): string`
```

Exact copy of the `PQescapeLiteral` function within libpq. Requires an established connection but does not perform any I/O.

```
`pq.escapeIdentifier(input: string): string`
```

Exact copy of the `PQescapeIdentifier` function within libpq. Requires an established connection but does not
perform any I/O.

```c
pq.cancel():true -or- string
```

Issues a request to cancel the currently executing query on this instance of libpq. Returns `true` if the cancel request was sent. Returns a `string` error message if the cancel request failed for any reason. The string will contain the error message provided by libpq.

## testing

```
$ npm test
```

To run the tests you need a PostgreSQL backend reachable by typing `psql` with no connection parameters in your terminal. The tests use [environment variables](http://www.postgresql.org/docs/9.3/static/libpq-envars.html) to connect to the backend.

An example of supplying a specific host the tests:

```
$ PGHOST=blabla.mydatabasehost.com npm test
```

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1.2474 cloud-guest-utils 0.30-0ubuntu5

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

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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@showsourceforge.net>

* atf-c/u.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5bb6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
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<!- $Id$ -->

<-- 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="normalize-space(substring-before($text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>

<xsl:if test="translate($rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format"

<xsl:with-param name="text" select="$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<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">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

</xsl:for-each>

</xsl:with-param>

</xsl:call-template>

<xsl:text> </xsl:text>

<xsl:value-of select="holder"/>

<xsl:value-of select="$isc.copyright.breakline"/>

</xsl:call-template>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format"

<xsl:with-param name="text">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright"/>

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

</xsl:for-each>

</xsl:with-param>

</xsl:call-template>

</xsl:variable>

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
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jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntry.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Interners.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedLists.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Cut.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/DenseImmutableTable.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/Converter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/net/PercentEscaper.java
jar/jersey/repackaged/com/google/common/primitives/Doubles.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/SerializingExecutor.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Booleans.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableBiMap.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableListMultimap.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/PeekingIterator.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Table.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Collections2.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/FluentIterable.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Platform.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ListenableFutureTask.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableCollectors.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Collectors.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Collectors2.java
 * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Collectors3.java
jar/jersey/repackaged/com/google/common/primitives/Floats.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Collect Preconditions.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/Escaper.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/HashBasedTable.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/MoreObjects.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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1.2501 go-codec 1.1.7

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1.2507 python-pam 1.8.4

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1.2508 x-net 0.0.0-20200226121028-0de0ccee0169b

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = "{"name":"the name","url":"the url"}"
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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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"
}

1.2510 curl 7.58.0 2ubuntu3.13

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1.2511 icu 60.2-3ubuntu3.2

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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
## Dependency rules

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\([^n]\)/\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 =

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1.2512 psycopg 2.7.4-1

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1.2513 just-diff-apply 4.0.1

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1.2523 colorspace 1.1.4

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1.2524 command-exists 1.2.8

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1.2529 gophercloud 0.6.0

1.2529.1 Available under license:

package RESOURCE

import ("github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method

// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return nil, err
    }
    return s.Resources, 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/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.
An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests
With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ 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:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `'[wip]'` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull
Request. As well, take advantage of the automatic testing that is done to
each commit.
### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

------------------
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing
import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = ``
    {
    }
```

// GetResult provides a Get result.
const GetResult = ``
    {
    }
```

// CreateRequest provides the input to a Create request.
const CreateRequest = ``
    {
    }
```
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{ 
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
    })
}
w.ResponseWriter(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.ResponseWriter(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.ResponseWriter(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.ResponseWriter(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 = nil
        r.Body, nil
        return
    }

    // CreateOptsBuilder allows extensions to add additional parameters to
    // the Create request.
type CreateOptsBuilder interface {
        ToResourceCreateMap() (map[string]interface{}, error)
    }

    // CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {

        // ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

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

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

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

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

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

import (  
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {  
    th.SetupHTTP()  
    defer th.TeardownHTTP()  
    HandleListResourcesSuccessfully(t)

    count := 0  
        count++

        actual, err := resources.ExtractResources(page)  
        th.AssertNoErr(t, err)  
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })  
    th.AssertNoErr(t, err)  
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {  
    th.SetupHTTP()  
    defer th.TeardownHTTP()  
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()  
    th.AssertNoErr(t, err)  
    actual, err := resources.ExtractResources(allPages)  
    th.AssertNoErr(t, err)  
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {  
    th.SetupHTTP()  
    defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleCreateResourceSuccessfully(t)

  createOpts := resources.CreateOpts{
    Name: "resource two",
  }

  actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
  th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleDeleteResourceSuccessfully(t)

  res := resources.Delete(client.ServiceClient(), "9fe1d3")
  th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleUpdateResourceSuccessfully(t)

  updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
  }

  actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("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 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.

```go
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 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
Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

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

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

The following issues are examples of missing fields:

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

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

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

### Adding a Missing API Call

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

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

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

### Adding a Missing API Suite

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

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

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

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

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

### Adding a Missing OpenStack Project

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

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

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

-------------------
If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID           string   `json:"id"`
    Name         string   `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```

...to look like

```go
type Network struct {
    ID                    string   `json:"id"`
    Name                  string   `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string   `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string   `json:"tenant_id"`
    Shared                bool     `json:"shared"`
    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:

```python
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/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](/.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).

1.2530 iputils 20161105 1ubuntu3

1.2530.1 Available under license:

This package was debianized by Anthony Towns <ajt@debian.org> on Sat, 5 Aug 2000 19:51:36 +1000.

It has been maintained for Debian by Noah Meyerhans <noahm@debian.org> since 6 Feb 2001.

It was downloaded from https://github.com/iputils/iputils

Upstream Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

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1.2531 repmgr-common 5.2.0-2.pgdg+1

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react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing>
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=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written
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C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

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=cut

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* /opt/cola/permits/1175538967_1624412573.72/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm
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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

    perl Makefile.PL
    make
    make test
    make install

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

    perl Makefile.PL LIB=~/perl

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES
Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

**SUPPORT**

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

**AVAILABILITY**

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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1.2540 golang-snappy 0.0.3-0.20201103224600-674baa8c7fc3

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

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

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit")
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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fields:
site: string
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package github

import "fmt"

// LicensesService handles communication with the license related // methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key",omitempty`        
    Name *string `json:"name",omitempty`    
    URL  *string `json:"url",omitempty`      
    HTMLURL    *string `json:"html_url",omitempty`
    Featured   *bool `json:"featured",omitempty`
    Description *string `json:"description",omitempty`
    Category   *string `json:"category",omitempty`
    Implementation *string `json:"implementation",omitempty`
    Required   *[]string `json:"required",omitempty`  
    Permitted  *[]string `json:"permitted",omitempty`
    Forbidden  *[]string `json:"forbidden",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() (licenses []License, resp *Response, err 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", "application/vnd.github.v3+json")

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

return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.2548 spdx-expression-parse 3.0.1

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1.2549 configstore 5.0.1

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This is an attempt to acknowledge early contributions to the garbage 
collector. Later contributions should instead be mentioned in 
README.changes.
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiamt.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

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

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) supplied the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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1.2578 wcwidth 1.0.1

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"  
)

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

func TestLicense(t *testing.T) {  
t.Parallel()  
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
if err != nil {  
return err  
}  
if ext := filepath.Ext(path); ext != ".go" && ext != "proto" {  
return nil  
}  
if strings.HasSuffix(path, ".pb.go") {  
// .pb.go files are generated from the proto files.  
// .proto files must have license headers.  
return nil  
}  
if path == "bigtable/cmd/cbt/cbtdoc.go" {  
// Automatically generated.  
return nil  
}  
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {  
// BSD license, which is compatible, is embedded in the file.  
return nil  
}  
src, err := ioutil.ReadFile(path)  
if err != nil {  
return nil  
}  
src = src[:300] // Ensure all of the sentinel values are at the top of the file.
// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
}
}

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

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

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

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tomb - support for clean goroutine termination in Go.

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- git.apache.org/thrift.git
- github.com/alicebob/gopher-json
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1.2592 zlib 1.2.11

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version 1.2.11, January 15th, 2017

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1.2601 google-go-cmp 0.4.0

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1.2602 function-bind 1.1.1

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1.2604 debug 2.6.9

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1.2608 init-package-json 2.0.5

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1.2609 prometheus-client 0.9.2

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1.2611 systemd-shim 10.3

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1.2616 wireless-regdb 2021.08.28-0ubuntu1~18.04.1

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1.2618 is-lambda 1.0.1

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1.2619 json-buffer 3.0.0
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1.2620 multiarch-support 2.27 3ubuntu1.4

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
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Once this change is made in a given copy, it is irreversible for 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
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modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
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this License. You must supply a copy of this License. If the work
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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1.2625 depd 1.1.2
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Preamble

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and 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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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 
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3. You may opt to apply the terms of the ordinary GNU General Public 
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Once this change is made in a given copy, it is irreversible for 
that copy, so the ordinary GNU General Public License applies to all 
subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy 
from a designated place, then offering equivalent access to copy the 
source code from the same place satisfies the requirement to 
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at 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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1.2628 promise-all-reject-late 1.0.1

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1.2630 toml 0.3.1

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1.2632 pynacl 1.4.0

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1.2634 go-openapi-validate 0.20.2

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1.2637 zlib 1.2.8

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

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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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1.2648 lumberjack 2.0.0+incompatible

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1.2649 hetznercloud-hcloud-go 1.23.1

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1.2650 metrics-health-checks 4.1.16

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1.2651 javax-annotation-api 1.3.2

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package spec

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

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

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1.2661 kubernetes-client 0.17.2

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1.2663 tomb v1.0.0-20141024135613-dd632973f1e7
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**tomb** - support for clean goroutine termination in Go.

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1.2664 go-openapi 0.19.3

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1.2665 zlib 1.2.3

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1.2666 stack 1.6.0

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1.2667 istio-io-gogo-genproto 0.0.0-20200807182027-a780f93e8ee1

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- Sleepycat

allowlisted_modules:
- bitbucket.org/ww/goautoneg
- git.apache.org/thrift.git
- github.com/alicebob/gopher-json
- github.com/antlr/antlr4
- github.com/apache/thrift
- github.com/bazelbuild/buildtools
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- github.com/opencontainers/runc
- github.com/openshift/origin
- github.com/pascaldeklue/goe
- github.com/pmezard/go-difflib
- github.com/projectcalico/go-yaml
- github.com/projectcalico/go-yaml-wrapper
- github.com/rcrowley/go-metrics
- github.com/yvasiyarov/go-metrics # fork of above with identical license
- github.com/russross/blackfriday
- github.com/russross/blackfriday/v2
- gopkg.in/russross/blackfriday.v2
- github.com/seed
- github.com/smartystreets/assertions
- github.com/smartystreets/goconvey
- github.com/storageos/go-api
- github.com/technosophos/moniker
- github.com/ulikunitz/xz
- github.com/xeipuuv/gojsonpointer
- github.com/xeipuuv/gojsonreference
- github.com/xi2/xz

# BSD-3
# fuse.go: ISC
# fuse_kernel.go: BSD-2
- bazil.org/fuse

# BSD-3
- github.com/DataDog/zstd

# BSD-2 / ISC
- github.com/emirpasic/gods

# MIT / MIT
- github.com/kevinburke/ssh_config

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- gopkg.in/yaml.v1
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1.2681 npmcli-git 2.1.0
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1.2683 libxml 2.9.4+dfsg1 6.1ubuntu1.3

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1.2684 wireguard-linux-compat 1.0.20201112-1~18.04.1
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1.2685 distro-info-data 0.37ubuntu0.11

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1.2686 argparse 1.4.0

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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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<td>2.6.3</td>
<td>2009</td>
<td>PSF</td>
<td>yes</td>
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</table>
2.6.5 2.6.4 2010 PSF yes
2.7 2.6 2010 PSF yes

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@end macro

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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)

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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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

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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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Windows support
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lib/hcrypto/test_dh.c

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1.2700 git 2.17.1-1ubuntu0.9

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1.2708 libpython3-6-stdlib 3.6.9-1~18.04ubuntu1.4

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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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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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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* Subject: Re: OpenLDAP License issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
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* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
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.. _history-and-license:

*******************
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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 https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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Mersenne Twister

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

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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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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/.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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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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THE BASIC LIBRARY FUNCTIONS
------------------------------

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

University of Cambridge Computing Service,

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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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package api

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

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

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }
    if err != nil {
      return err
    }
    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }
    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
      t.Errorf("%v: license header not at the top", path)
    }
    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2754 gobject-introspection 1.56.1-1

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---------------------------------------------------------------------------
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---------------------------------------------------------------------------
[AsmJit]

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---------------------------------------------------------------------------
[PCRE]

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

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---------------------------------------------------------------------------
[zlib]

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

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

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

*/

---------------------------------------------------------------------------
[fp16]
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[dialyzer]

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[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/
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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 %}
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- Issue Tracker: https://github.com/pallets/jinja/issues/
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- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO

1.2764 google-go-cmp 0.5.0

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1.2765 java-common 0.68ubuntu1~18.04.1

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1.2766 apacheutils 2.4.29-1ubuntu4.14

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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com
Randy Terbush, randy@zyzzyva.com
Port to Apache module format, "base_uri" and support for relative URLs.

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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1.2767 x-sync 0.0.0-20190911185100-cd5d95a43a6e

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1.2768 query 1.0.0

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1.2769 tke 1.7.0
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package license

import (    "reflect"    "testing"    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
)

var (    now = time.Date(2019, 01, 31, 0, 0, 0, 0, time.UTC)    gold = client.ElasticsearchLicenseTypeGold    platinum = client.ElasticsearchLicenseTypePlatinum    trial = client.ElasticsearchLicenseTypeTrial    enterprise = client.ElasticsearchLicenseTypeEnterprise    expired = client.License{        ExpiryDateInMillis: chrono.MustMillis("2018-12-31"),        StartDateInMillis: chrono.MustMillis("2018-01-01"),    }    oneMonth = client.License{        ExpiryDateInMillis: chrono.MustMillis("2019-02-28"),        StartDateInMillis: chrono.MustMillis("2019-01-01"),    }    twoMonth = client.License{        ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),        StartDateInMillis: chrono.MustMillis("2019-01-01"),    }    twelveMonth = client.License{        ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),        StartDateInMillis: chrono.MustMillis("2019-01-01"),    }
)

func license(l client.License, t client.ElasticsearchLicenseType) client.License {    l.Type = string(t)    return l }

func noopFilter(_ EnterpriseLicense) (bool, error) {    return true, nil

func Test_bestMatchAt(t *testing.T) {

type args struct {
    licenses []EnterpriseLicense
    minVersion version.Version
}

tests := []struct {
    name     string
    args     args
    want     client.License
    wantFound bool
} {
    {
        name:     "no result: no licenses",
        wantFound: false,
    },
    {
        name:      "no result: only expired enterprise license",
        args:      args{
            licenses: []EnterpriseLicense{[
                License: LicenseSpec{
                    ExpiryDateInMillis: chrono.MustMillis("2017-12-31"),
                    StartDateInMillis:  chrono.MustMillis("2017-01-01"),
                    Type:               "enterprise",
                },
            ]},
            want: client.License{},
            wantFound: false,
        },
        {
            name:      "no result: only expired nested licenses",
            args:      args{
                licenses: []EnterpriseLicense{[
                    License: LicenseSpec{
                        ExpiryDateInMillis: chrono.MustMillis("2019-12-31"),
                        StartDateInMillis:  chrono.MustMillis("2018-01-01"),
                        Type:               "enterprise",
                    },
                ]},
                want: client.License{},
                wantFound: false,
            },
        },
    }
}
name: "success: prefer external trial over expired platinum",
args: args{
licenses: []EnterpriseLicense{
}
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{
{License: license(expired, platinum)},
{License: license(expired, platinum)},
},
},
},
},
{License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterpriseTrial,
Issuer: "API",
ClusterLicenses: []ElasticsearchLicense{
{License: license(oneMonth, platinum)},
},
},
},
},
{License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{
{License: license(oneMonth, platinum)},
},
},
},
}
Type: LicenseTypeEnterpriseTrial,
},
},
},
want: license(client.License{}, trial),
wantFound: true,
},
{name: "success: prefer platinum over external trial",
args: args{
licenses: []EnterpriseLicense{
{
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterprise,
ClusterLicenses: []ElasticsearchLicense{
{License: license(twelveMonth, platinum)},
{License: license(twomonth, gold)},
},
},
},
{
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterpriseTrial,
Issuer: "API",
ClusterLicenses: []ElasticsearchLicense{
{License: license(twelveMonth, trial)},
},
},
 WANT: license(twelveMonth, platinum),
wantFound: true,
},
{name: "success: prefer platinum over eck managed trial",
args: args{
licenses: []EnterpriseLicense{
{
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterprise,
ClusterLicenses: []ElasticsearchLicense{
    {License: license(twelveMonth, platinum)},
    {License: license(twoMonth, gold)},
},
},
},
{
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterpriseTrial,
},
},
},
want: license(twelveMonth, platinum),
wantFound: true,
},
{
name: "success: prefer external trial over eck managed trial",
args: args{
licenses: []EnterpriseLicense{
    {License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterpriseTrial,
},
},
},
License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
Type: LicenseTypeEnterpriseTrial,
Issuer: "API",
ClusterLicenses: []ElasticsearchLicense{
    {License: license(twelveMonth, platinum)},
    {License: license(twoMonth, gold)},
},
},
},
want: license(twelveMonth, platinum),
wantFound: true,
},
{
name: "success: longest valid platinum",

args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(oneMonth, platinum),
        License: license(twoMonth, platinum),
        License: license(twelveMonth, platinum),
      },
    },
  },
  want:      license(twelveMonth, platinum),
  wantFound: true,
},
}
name: "success: mixed platinum/enterprise pre 7.8.1",
args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(oneMonth, enterprise),
        License: license(twoMonth, platinum),
        License: license(twelveMonth, platinum),
      },
    },
  },
  want:      license(twelveMonth, platinum),
  wantFound: true,
},
}
name: "success: mixed platinum/enterprise post 7.8.1",
args: args{
  minVersion: version.MustParse("7.8.1"),
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{

name: "success: longest valid from multiple enterprise licenses",
args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(twelveMonth, platinum),
      },
    },
  },
  want: license(twelveMonth, platinum),
  wantFound: true,
},

name: "success: best license",
args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(twelveMonth, platinum),
      },
    },
  },
  want: license(twelveMonth, platinum),
  wantFound: true,
},

name: "success: best license",
args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(twelveMonth, platinum),
      },
    },
  },
  want: license(twelveMonth, platinum),
  wantFound: true,
},

name: "success: longest valid from multiple enterprise licenses",
args: args{
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: license(twelveMonth, platinum),
      },
    },
  },
  want: license(twelveMonth, platinum),
  wantFound: true,
func TestFilterValidForType(t *testing.T) {
    type args struct {
        minVersion version.Version
        licenses  []EnterpriseLicense
    }
    tests := []struct {
        name  string
        args  args
        want  []licenseWithTimeLeft
    }{
        {name: "no licenses",
         args: args{},
         want: []licenseWithTimeLeft{}}
    }
name: "single match",
args: args{
licenses: []EnterpriseLicense{

License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{

License: client.License{
Type: string(client.ElasticsearchLicenseTypePlatinum),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
},
},
},
},
},
},
want: []licenseWithTimeLeft{

license: client.License{
Type: string(client.ElasticsearchLicenseTypePlatinum),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
},
remaining: 24 * time.Hour,
},
},
},
}

name: "matching is version specific: pre-7.8.1",
args: args{
minVersion: version.MustParse("7.5.0"),
licenses: []EnterpriseLicense{

License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{

License: client.License{
Type: string(client.ElasticsearchLicenseTypeEnterprise),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
}}}}
want: []licenseWithTimeLeft{
},

name: "matching is version specific: post-7.8.1",
args: args{
  minVersion: version.MustParse("7.8.1"),
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
      StartDateInMillis:  chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: client.License{
          Type:               string(client.ElasticsearchLicenseTypeEnterprise),
          ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
          StartDateInMillis:  chrono.MustMillis("2019-01-01"),
        },
      },
    },
    remaining: 24 * time.Hour,
  }
},

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    if got := filterValidForType(expected tt.want, got, tt.want) {
      t.Errorf("filterValidForType expected %v, got %v", tt.want, got)
    }
  })
package license

import (
    "fmt"
    "math"
    "reflect"
    "strconv"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/reconciler"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/elastic/cloud-on-k8s/pkg/utils/metrics"
    "github.com/prometheus/client_golang/prometheus"
    "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/api/resource"
    "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/types"
)

const (  
defaultOperatorLicenseLevel is the default license level when no operator license is installed
defaultOperatorLicenseLevel = "basic"
  // LicensingCfgMapName is the name of the config map used to store licensing information
  LicensingCfgMapName = "elastic-licensing"
  // Type represents the Elastic usage type used to mark the config map that stores licensing information
  Type = "elastic-usage"
)

// LicensingInfo represents information about the operator license including the total memory of all Elastic managed
// components

type LicensingInfo struct {
    Timestamp                  string
    EckLicenseLevel            string
    TotalManagedMemory         float64
    MaxEnterpriseResourceUnits int64
    EnterpriseResourceUnits    int64
}

// toMap transforms a LicensingInfo to a map of string, in order to fill in the data of a config map
func (li LicensingInfo) toMap() map[string]string {
    m := map[string]string{
        "timestamp":                 li.Timestamp,
        "eck_license_level":         li.EckLicenseLevel,
        "total_managed_memory":      fmt.Sprintf("%0.2fGB", li.TotalManagedMemory),
        "enterprise_resource_units": strconv.FormatInt(li.EnterpriseResourceUnits, 10),
    }
    if li.MaxEnterpriseResourceUnits > 0 {
        m["max_enterprise_resource_units"] = strconv.FormatInt(li.MaxEnterpriseResourceUnits, 10)
    }
    return m
}

func (li LicensingInfo) ReportAsMetrics() {
    labels := prometheus.Labels{metrics.LicenseLevelLabel: li.EckLicenseLevel}
    metrics.LicensingTotalMemoryGauge.With(labels).Set(li.TotalManagedMemory)
    metrics.LicensingTotalERUGauge.With(labels).Set(float64(li.EnterpriseResourceUnits))
    if li.MaxEnterpriseResourceUnits > 0 {
        metrics.LicensingMaxERUGauge.With(labels).Set(float64(li.MaxEnterpriseResourceUnits))
    }
}

// LicensingResolver resolves the licensing information of the operator
type LicensingResolver struct {
    operatorNs string
    client     k8s.Client
}

// ToInfo returns licensing information given the total memory of all Elastic managed components
func (r LicensingResolver) ToInfo(totalMemory resource.Quantity) (LicensingInfo, error) {
    operatorLicense, err := r.getOperatorLicense()
    if err != nil {
        return LicensingInfo{}, err
    }
    licensingInfo := LicensingInfo{
        Timestamp:               time.Now().Format(time.RFC3339),
        EckLicenseLevel:         r.getOperatorLicenseLevel(operatorLicense),
        TotalManagedMemory:      inGB(totalMemory),
        EnterpriseResourceUnits: inEnterpriseResourceUnits(totalMemory),
    }
    if maxERUs := r.getMaxEnterpriseResourceUnits(operatorLicense); maxERUs > 0 {
        licensingInfo.MaxEnterpriseResourceUnits = maxERUs
    }
    return licensingInfo, err
}
func (r LicensingResolver) Save(info LicensingInfo) error {
    log.V(1).Info("Saving", "namespace", r.operatorNs, "configmap_name", LicensingCfgMapName, "license_info", info)
    nsn := types.NamespacedName{
        Namespace: r.operatorNs,
        Name:      LicensingCfgMapName,
    }
    expected := corev1.ConfigMap{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: nsn.Namespace,
            Name:      nsn.Name,
            Labels: map[string]string{
                common.TypeLabelName: Type,
            },
        },
        Data: info.toMap(),
    }

    reconciled := &corev1.ConfigMap{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: r.operatorNs,
            Name:      LicensingCfgMapName,
        },
        Data: info.toMap(),
    }

    return reconciler.ReconcileResource(reconciler.Params{
        Client:     r.client,
        Expected:   &expected,
        Reconciled: reconciled,
        NeedsUpdate: func() bool {
        },
        UpdateReconciled: func() {
            expected.DeepCopyInto(reconciled)
        },
    })
}

// getOperatorLicenseLevel gets the level of the operator license.
// If no license is given, the defaultOperatorLicenseLevel is returned.

func (r LicensingResolver) getOperatorLicenseLevel(lic *license.EnterpriseLicense) string {
    if lic == nil {
        return defaultOperatorLicenseLevel
    }
    return string(lic.License.Type)
}

// getMaxEnterpriseResourceUnits returns the maximum of enterprise resources units that is allowed for a given license.
// For old style enterprise orchestration licenses which only have max_instances, the maximum of enterprise resources
// units is derived by dividing max_instances by 2.
func (r LicensingResolver) getMaxEnterpriseResourceUnits(lic *license.EnterpriseLicense) int64 {
    if lic == nil {
        return 0
    }
    maxERUs := lic.License.MaxResourceUnits
    if maxERUs == 0 {
        maxERUs = lic.License.MaxInstances / 2
    }
    return int64(maxERUs)
}

// inGB converts a resource.Quantity in gigabytes
func inGB(q resource.Quantity) float64 {
    // divide the value (in bytes) per 1 billion (1GB)
    return float64(q.Value()) / 1000000000
}

// inEnterpriseResourceUnits converts a resource.Quantity to Elastic Enterprise resource units
func inEnterpriseResourceUnits(q resource.Quantity) int64 {
    // divide by the value (in bytes) per 64 billion (64 GB)
    eru := float64(q.Value()) / 64000000000
    // round to the nearest superior integer
    return int64(math.Ceil(eru))
}

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package license

import (    "github.com/elastic/cloud-on-k8s/pkg/controller/common"    corev1 "k8s.io/api/core/v1"
)
func isLicenseType(secret corev1.Secret, licenseType OperatorLicenseType) bool {
    // is it a license at all (but be lenient if user omitted label)?
    baseType, hasLabel := secret.Labels[common.TypeLabelName]
    if hasLabel && baseType != Type {
        return false
    }
    // required to be set by user to detect license
    return secret.Labels[LicenseLabelType] == string(licenseType)
}

// IsEnterpriseTrial returns true if the given secret is a wrapper for an Enterprise Trial license
func IsEnterpriseTrial(secret corev1.Secret) bool {
    // we need to support legacy trial license secrets for backwards compatibility
    return isLicenseType(secret, LicenseTypeEnterpriseTrial) || isLicenseType(secret, LicenseTypeLegacyTrial)
}

// IsOperatorLicense returns true if the given secret is a wrapper for an operator license.
func IsOperatorLicense(secret corev1.Secret) bool {
    scope, hasLabel := secret.Labels[LicenseLabelScope]
    return hasLabel && scope == string(LicenseScopeOperator)
}

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package license
import (  "bytes"  "crypto/aes"  "crypto/cipher"  "crypto/rand"
)

const customPadding = 20

var (  // aesKey is effectively constant  // see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L162-L179  aesKey = []byte("\x76\x7A\x57\x69\x68\x4A\x4A\x4B\x6E\x30\x72\x6B\x69\x50\x2B")
)

// encryptWithAESECB should be identical to what is called v3 license key  // encryption see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L142-L180  // customPad see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L212-L236
func encryptWithAESECB(plaintext []byte) ([]byte, error) {  padded := pkcs5Pad(customPad(plaintext))  ciphertext := make([]byte, len(padded))  block, err := aes.NewCipher(aesKey)  if err != nil {    return nil, err  }
  ecb(block, ciphertext, padded)  return ciphertext, nil
}

func ecb(block cipher.Block, dst, src []byte) {  // ECB encrypts each block independently  https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation#Electronic_codebook_(ECB)  for len(src) > 0 {    block.Encrypt(dst, src[:block.BlockSize()])    src = src[block.BlockSize():] //nolint:wastedassign  }
}

func customPad(data []byte) []byte {  if len(data) >= customPadding {    return append(data, 1)  }
padLen := customPadding - len(data)
padding := make([]byte, padLen)
_ _, _ = rand.Read(padding)
data = append(data, padding...)
return append(data, byte(padLen+1))

// pkcs5Pad see https://en.wikipedia.org/wiki/Padding_(cryptography)#PKCS%5_and_PKCS%7
func pkcs5Pad(data []byte) []byte {
padLen := aes.BlockSize - len(data)%aes.BlockSize
padding := bytes.Repeat([]byte{byte(padLen)}, padLen)
return append(data, padding...)
}

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package license

import (  "crypto/rand"  "crypto/rsa"  "crypto/x509"  "errors"  "fmt"  "time"

"github.com/elastic/cloud-on-k8s/pkg/utils/chrono"  pkgerrors "github.com/pkg/errors"  corev1 "k8s.io/api/core/v1"  metav1 "k8s.io/apiserver/pkg/apis/meta/v1"  "k8s.io/api/registration/pkg/types"  "k8s.io/api/registration/pkg/util/uuid"
)

const (  ECKLicenseIssuer = "Elastic k8s operator"

TrialStatusSecretKey = "trial-status"
TrialPubkeyKey = "pubkey"
TrialActivationKey = "in-trial-activation"

TrialLicenseSecretName = "trial.k8s.elastic.co/secret-name" //nolint:gosec  TrialLicenseSecretNamespace = "trial.k8s.elastic.co/secret-namespace" //nolint:gosec
)

// TrialState captures the in-memory representation of the trial status.
type TrialState struct {
    privateKey *rsa.PrivateKey
    publicKey  *rsa.PublicKey
}

// NewTrialState creates a new trial state based on a new RSA key pair.
func NewTrialState() (TrialState, error) {
    key, err := newTrialKey()
    if err != nil {
        return TrialState{}, err
    }
    return TrialState{
        privateKey: key,
        publicKey:  &key.PublicKey,
    }, nil
}

// NewTrialStateFromStatus reconstructs trial state from a trial status secret.
func NewTrialStateFromStatus(trialStatus corev1.Secret) (TrialState, error) {
    // reinstate pubkey from status secret e.g. after operator restart
    pubKeyBytes := trialStatus.Data[TrialPubkeyKey]
    key, err := ParsePubKey(pubKeyBytes)
    if err != nil {
        return TrialState{}, err
    }
    return TrialState{
        publicKey: key,
    }, nil
}

// IsTrialStarted returns true if a trial has been successfully started at some point in the past.
func (tk *TrialState) IsTrialStarted() bool {
    return tk.publicKey != nil && tk.privateKey == nil
}

// IsEmpty returns true on an empty state struct.
func (tk *TrialState) IsEmpty() bool {
    return tk.privateKey == nil && tk.publicKey == nil
}

// InitTrialLicense initialises and signs the given license based on the current state.
func (tk *TrialState) InitTrialLicense(l *EnterpriseLicense) error {
    if tk.privateKey == nil {
        return errors.New("trial has already been activated")
    }
    if l == nil {
        return errors.New("license is nil")
    }
if err := populateTrialLicense(l); err != nil {
    return pkgerrors.Wrap(err, "failed to populate trial license")
}

log.Info("Starting enterprise trial", "start", l.StartTime(), "end", l.ExpiryTime())
// sign trial license
signer := NewSigner(tk.privateKey)
sig, err := signer.Sign(*l)
if err != nil {
    return pkgerrors.Wrap(err, "failed to sign license")
}

l.License.Signature = string(sig)
return nil

// CompleteTrialActivation should be called once a trial license has been successfully generated and verified.
// Returns false if the trial activation had been completed previously.
func (tk *TrialState) CompleteTrialActivation() bool {
    if tk.privateKey == nil {
        return false
    }
    tk.privateKey = nil
    return true
}

// LicenseVerifier returns a verifier based on the current state/public key
func (tk *TrialState) LicenseVerifier() *Verifier {
    return &Verifier{PublicKey: tk.publicKey}
}

// ExpectedTrialStatus creates the expected state of the trial status secret for the given trial state for reconciliation purposes.
func ExpectedTrialStatus(operatorNamespace string, license types.NamespacedName, state TrialState) (corev1.Secret, error) {
    if state.IsEmpty() {
        return corev1.Secret{}, errors.New("cannot create trial status from uninitialised trial state")
    }
    pubkeyBytes, err := x509.MarshalPKIXPublicKey(state.publicKey)
    if err != nil {
        return corev1.Secret{}, err
    }
    secret := corev1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: operatorNamespace,
            Name:      TrialStatusSecretKey,
            Annotations: map[string]string{
                TrialLicenseSecretName:      license.Name,
            }
        }
    }
    return secret, err
}
if !state.IsTrialStarted() {
    secret.Data[TrialActivationKey] = []byte("true")
}
return secret, nil

func newTrialKey() (*rsa.PrivateKey, error) {
    rnd := rand.Reader
    trialKey, err := rsa.GenerateKey(rnd, 2048)
    if err != nil {
        return nil, fmt.Errorf("while generating trial key %w", err)
    }
    return trialKey, nil
}

// populateTrialLicense adds missing fields to a trial license.
func populateTrialLicense(l *EnterpriseLicense) error {
    if !l.IsTrial() {
        return pkgerrors.Errorf("%s for %s is not a trial license", l.License.UID, l.License.IssuedTo)
    }
    if l.License.Issuer == "" {
        l.License.Issuer = ECKLicenseIssuer
    }
    if l.License.IssuedTo == "" {
        l.License.IssuedTo = "Unknown"
    }
    if l.License.UID == "" {
        l.License.UID = string(uuid.NewUUID())
    }
    if l.License.StartDateInMillis == 0 || l.License.ExpiryDateInMillis == 0 {
        setStartAndExpiry(l, time.Now())
    }
    return nil
}

// setStartAndExpiry sets the issue, start and end dates for a trial.
func setStartAndExpiry(l *EnterpriseLicense, from time.Time) {
    l.License.StartDateInMillis = chrono.ToMillis(from)
    l.License.IssueDateInMillis = l.License.StartDateInMillis
    l.License.ExpiryDateInMillis = chrono.ToMillis(from.Add(24 * time.Hour * 30))
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package license

import (    "encoding/json"    "io/ioutil"    "testing"    "time"

controllerscheme "github.com/elastic/cloud-on-k8s/pkg/controller/common/scheme"    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"    "github.com/go-test/deep"    "github.com/stretchr/testify/require"
)

func TestLicense_IsValidAt(t *testing.T) {
    now := time.Date(2019, 01, 31, 0, 0, 0, 0, time.UTC)
type fields struct {
    startMillis int64
    expiryMillis int64
}
type args struct {
}
offset time.Duration
}
tests := []struct {
    name   string
    fields fields
    args   args
    want   bool
}{{
    name: "valid license - starts now",
    fields: fields{
        startMillis: chrono.MustMillis("2019-01-31"),
        expiryMillis: chrono.MustMillis("2019-12-31"),
    },
    want: true,
},
{
    name: "valid license - no offset",
    fields: fields{
        startMillis: chrono.MustMillis("2019-01-01"),
        expiryMillis: chrono.MustMillis("2019-12-31"),
    },
    want: true,
},
{
    name: "valid license - with offset",
    fields: fields{
        startMillis: chrono.MustMillis("2019-01-01"),
        expiryMillis: chrono.MustMillis("2019-12-31"),
    },
    args: args{
        offset: 30 * 24 * time.Hour,
    },
    want: true,
},
{
    name: "invalid license - because of offset",
    fields: fields{
        startMillis: chrono.MustMillis("2019-01-30"),
        expiryMillis: chrono.MustMillis("2019-02-28"),
    },
    args: args{
        offset: 90 * 24 * time.Hour,
    },
    want: false,
},
{
    name: "invalid license - expired",
fields: fields{
    startMillis: chrono.MustMillis("2018-01-01"),
    expiryMillis: chrono.MustMillis("2019-01-01"),
},
want: false,
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        l := EnterpriseLicense{
            License: LicenseSpec{
                ExpiryDateInMillis: tt.fields.expiryMillis,
                StartDateInMillis: tt.fields.startMillis,
            },
        }
        if got := l.IsValid(now.Add(tt.args.offset)); got != tt.want {
            t.Errorf("ClusterLicense.IsValid() = %v, want %v", got, tt.want)
        }
    })
}
var expectedLicenseSpec = EnterpriseLicense{
    License: LicenseSpec{
        UID: "840F0DB6-1906-452E-98C7-6F94E6012CD7",
        IssueDateInMillis: 1548115200000,
        ExpiryDateInMillis: 1561247999999,
        IssuedTo: "test org",
        Issuer: "test issuer",
        StartDateInMillis: 1548115200000,
        Type: "enterprise",
        MaxInstances: 40,
        Signature: "test signature",
        ClusterLicenses: []ElasticsearchLicense{
            {
                License: client.License{
                    UID: "73117B2A-FEEA-4FEC-B8F6-49D764E9F1DA",
                    IssueDateInMillis: 1548115200000,
                    ExpiryDateInMillis: 1561247999999,
                    IssuedTo: "test org",
                    Issuer: "test issuer",
                    StartDateInMillis: 1548115200000,
                    MaxNodes: 100,
                    Type: "gold",
                    Signature: "test signature gold",
                },
            },
        },
    },
}
License: client.License{
    UID: "57E312E2-6EA0-49D0-8E65-AA5017742ACF",
    IssueDateInMillis: 1548115200000,
    ExpiryDateInMillis: 1561247999999,
    IssuedTo: "test org",
    Issuer: "test issuer",
    StartDateInMillis: 1548115200000,
    MaxNodes: 100,
    Type: "platinum",
    Signature: "test signature platinum",
},
}

var expectedLicenseSpecV4 = EnterpriseLicense{
    License: LicenseSpec{
        UID: "840F0DB6-1906-452E-98C7-6F94E6012CD7",
        IssueDateInMillis: 1548115200000,
        ExpiryDateInMillis: 1561247999999,
        IssuedTo: "test org",
        Issuer: "test issuer",
        StartDateInMillis: 1548115200000,
        Type: "enterprise",
        MaxResourceUnits: 20,
        Signature: "test signature",
        ClusterLicenses: [ElasticsearchLicense{
            License: client.License{
                UID: "73117B2A-FEEA-4FEC-B8F6-49D764E9F1DA",
                IssueDateInMillis: 1548115200000,
                ExpiryDateInMillis: 1561247999999,
                IssuedTo: "test org",
                Issuer: "test issuer",
                StartDateInMillis: 1548115200000,
                MaxNodes: 100,
                Type: "platinum",
                Signature: "test signature platinum",
            },
        }]}
    }
}
func Test_unmarshalModel(t *testing.T) {
    controllerscheme.SetupScheme()
    type args struct {
        licenseFile string
    }
    tests := []struct {
        name     string
        args     args
        wantErr  bool
        assertion func(el EnterpriseLicense)
    }{
        {
            name: "invalid input: FAIL",
            args: args{
                licenseFile: "testdata/test-error.json",
            },
            wantErr: true,
        },
        {
            name: "valid input: license v3 OK",
            args: args{
                licenseFile: "testdata/test-license.json",
            },
            wantErr: false,
            assertion: func(el EnterpriseLicense) {
                if diff := deep.Equal(el, expectedLicenseSpec); diff != nil {
                    t.Error(diff)
                }
            },
        },
        {
            name: "valid input: license v4 OK",
            args: args{
                licenseFile: "testdata/test-license-v4.json",
            },
            wantErr: false,
            assertion: func(el EnterpriseLicense) {
                if diff := deep.Equal(el, expectedLicenseSpecV4); diff != nil {
                    t.Error(diff)
                }
            },
        },
    }
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        var license EnterpriseLicense
        bytes, err := ioutil.ReadFile(tt.args.licenseFile)
        require.NoError(t, err)
        if err := json.Unmarshal(bytes, &license); (err != nil) != tt.wantErr {
            t.Errorf("extractTransformLoadLicense() error = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.assertion != nil {
            tt.assertion(license)
        }
    })
}

func TestEnterpriseLicense_IsECKManagedTrial(t *testing.T) {
    type fields struct {
        License LicenseSpec
    }
    tests := []struct {
        name   string
        fields fields
        want   bool
    }{
        {
            name: "true: type trial and expected issuer ",
            fields: fields{
                License: LicenseSpec{
                    Type: LicenseTypeEnterpriseTrial,
                    Issuer: ECKLicenseIssuer,
                },
                want: true,
            }
        },
        {
            name: "true: type legacy trial and expected issuer",
            fields: fields{
                License: LicenseSpec{
                    Type: LicenseTypeLegacyTrial,
                    Issuer: ECKLicenseIssuer,
                },
                want: true,
            }
        },
    }
want: true,
},
{name: "false: wrong type",
fields: fields{
License: LicenseSpec{
Type: LicenseTypeEnterprise,
Issuer: ECKLicenseIssuer,
},
},
want: false,
},
{name: "false: wrong issuer",
fields: fields{
License: LicenseSpec{
Type: LicenseTypeEnterpriseTrial,
Issuer: "API",
},
},
want: false,
}
for _, tt := range tests {
   t.Run(tt.name, func(t *testing.T) {
   l := EnterpriseLicense{
License: tt.fields.License,
   }
if got := l.IsECKManagedTrial(); got != tt.want {
   t.Errorf("IsECKManagedTrial() = %v, want %v", got, tt.want)
   }
})
}

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package license

import (
   "encoding/json"
   "github.com/pkg/errors"
)

func ParseEnterpriseLicense(raw map[string][]byte) (EnterpriseLicense, error) {
   var license EnterpriseLicense
bytes, err := FetchLicenseData(raw)
if err != nil {
    return license, err
}

err = json.Unmarshal(bytes, &license)
if err != nil {
    return license, errors.Wrapf(err, "license cannot be unmarshalled")
}

return license, nil
}

func FetchLicenseData(raw map[string][]byte) ([]byte, error) {
if len(raw) != 1 {
    return nil, errors.New("license secret needs to contain exactly one file with any name")
}

var result []byte
// will only loop once due to the check above
for _, bytes := range raw {
    result = bytes
}

return result, nil
}

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package license

import {
    "context"
    "encoding/json"
    "fmt"
    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    ulog "github.com/elastic/cloud-on-k8s/pkg/utils/log"
    pkgerrors "github.com/pkg/errors"
    corev1 "k8s.io/api/core/v1"
    apierrors "k8s.io/apimachinery/pkg/api/errors"
    "k8s.io/apimachinery/pkg/types"
}
var log = ulog.Log.WithName("elasticsearch-controller")

// isTrial returns true if an Elasticsearch license is of the trial type
func isTrial(l esclient.License) bool {
    return l.Type == string(esclient.ElasticsearchLicenseTypeTrial)
}

// isBasic returns true if an Elasticsearch license is of the basic type
func isBasic(l esclient.License) bool {
    return l.Type == string(esclient.ElasticsearchLicenseTypeBasic)
}

func applyLinkedLicense(
    ctx context.Context,
    c k8s.Client,
    esCluster types.NamespacedName,
    updater esclient.LicenseClient,
) error {
    // get the current license
    current, err := updater.GetLicense(ctx)
    if err != nil {
        return fmt.Errorf("while getting current license level %w", err)
    }

    // get the expected license
    // the underlying assumption here is that either a user or a
    // license controller has created a cluster license in the
    // namespace of this cluster following the cluster-license naming
    // convention
    var license corev1.Secret
    err = c.Get(context.Background(),
                types.NamespacedName{
                    Namespace: esCluster.Namespace,
                    Name:      esv1.LicenseSecretName(esCluster.Name),
                },
                &license,
    )
    if err != nil && !apierrors.IsNotFound(err) {
        return err
    }
    if err != nil && apierrors.IsNotFound(err) {
        // no license expected, let's look at the current cluster license
        switch {
        case isBasic(current):
            // nothing to do
            return nil
        case isTrial(current):
            //...
// Elasticsearch reports a trial license, but there's no ECK enterprise trial requested.
// This can be the case if:
// - an ECK trial was started previously, then stopped (secret removed)
// - the user manually started a trial at the stack level (eg. by clicking a button in Kibana when
// trying to access a commercial feature). While this is not a supported use case,
// we tolerate it to avoid a bad user experience because trials can only be started once.
log.V(1).Info("Preserving existing stack-level trial license",
return nil

default:
// revert the current license to basic
return startBasic(ctx, updater)
}

bytes, err := commonlicense.FetchLicenseData(license.Data)
if err != nil {
    return err
}

var desired esclient.License
err = json.Unmarshal(bytes, &desired)
if err != nil {
    return pkgerrors.Wrap(err, "no valid license found in license secret")
}
return updateLicense(ctx, esCluster, updater, current, desired)

func startBasic(ctx context.Context, updater esclient.LicenseClient) error {
    _, err := updater.StartBasic(ctx)
    if err != nil && esclient.IsForbidden(err) {
        // ES returns 403 + acknowledged: true (which we don't parse in case of error) if we are already in basic mode
        return nil
    }
    return pkgerrors.Wrap(err, "failed to revert to basic")
}

// updateLicense make the call to Elasticsearch to set the license. This function exists mainly to facilitate testing.
func updateLicense(
    ctx context.Context,
    esCluster types.NamespacedName,
    updater esclient.LicenseClient,
    current esclient.License,
    desired esclient.License,
) error {
    if current.UID == desired.UID || (isTrial(current) && current.Type == desired.Type) {
        return nil // we are done already applied
    }
}
request := esclient.LicenseUpdateRequest{
    Licenses: []esclient.License{
        desired,
    },
}

if isTrial(desired) {
    return pkgerrors.Wrap(startTrial(ctx, updater, esCluster), "failed to start trial")
}

response, err := updater.UpdateLicense(ctx, request)
if err != nil {
    return pkgerrors.Wrap(err, fmt.Sprintf("failed to update license to %s", desired.Type))
}
if !response.IsSuccess() {
    return pkgerrors.Errorf("failed to apply license: %s", response.LicenseStatus)
}
return nil

// startTrial starts the trial license after checking that the trial is not yet activated by directly hitting the
// Elasticsearch API.
func startTrial(ctx context.Context, c esclient.LicenseClient, esCluster types.NamespacedName) error {
    response, err := c.StartTrial(ctx)
    if err != nil && esclient.IsForbidden(err) {
        log.Info("failed to start trial most likely because trial was activated previously",
            "err", err.Error(),
            "namespace", esCluster.Namespace,
            "name", esCluster.Name,
        )
        return nil
    }
    if response.IsSuccess() {
        log.Info(
            "Elasticsearch trial license activated",
            "namespace", esCluster.Namespace,
            "name", esCluster.Name,
        )
    }
    return err
}

---

apiVersion: elasticsearch.k8s.elastic.co/v1
kind: Elasticsearch
metadata:
    name: test-elasticsearch
spec:
    version: 7.9.0
nodeSets:
  - name: master-a
count: 1
podTemplate:
spec:
  containers:
  - name: elasticsearch
eval:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
resources:
  requests:
    memory: 8Gi
cpu: 2
  limits:
    memory: 8Gi

- name: master-b
count: 1
podTemplate:
spec:
  containers:
  - name: elasticsearch
eval:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
resources:
  requests:
    memory: 8Gi
cpu: 1
  limits:
    memory: 8Gi

- name: master-c
count: 1
podTemplate:
spec:
  containers:
  - name: elasticsearch
eval:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
resources:
  requests:
    memory: 8Gi
cpu: 1
  limits:
    memory: 8Gi

- name: hot-a
count: 3
podTemplate:
  spec:
    containers:
    - name: elasticsearch
      env:
      - name: ES_JAVA_OPTS
        value: "-Xms16g -Xmx16g"
      - name: warm-a
        count: 3
    podTemplate:
      spec:
        containers:
        - name: elasticsearch
          env:
          - name: ES_JAVA_OPTS
            value: "-Xms32g -Xmx32g"
          resources:
            requests:
              memory: 58Gi
              cpu: 4
            limits:
              memory: 58Gi

---

apiVersion: kibana.k8s.elastic.co/v1
kind: Kibana
metadata:
  name: test-kibana-1
spec:
  version: 7.9.0
  count: 1
podTemplate:
  spec:
    containers:
    - name: kibana
      resources:
        requests:
          memory: 4Gi
          limits:
          memory: 4Gi

---

apiVersion: kibana.k8s.elastic.co/v1
kind: Kibana
metadata:
  name: test-kibana-2
spec:
  version: 7.9.0
  count: 1
podTemplate:
spec:
  containers:
  - name: kibana
    env:
    - name: NODE_OPTIONS
      value: "--max-old-space-size=2048"
---
apiVersion: apm.k8s.elastic.co/v1
kind: ApmServer
metadata:
  name: test-apm
spec:
  version: 7.9.0
  count: 1
podTemplate:
  spec:
    containers:
    - name: apm-server
      resources:
        requests:
          memory: 2Gi
        limits:
          memory: 2Gi
---
apiVersion: enterprisesearch.k8s.elastic.co/v1
kind: EnterpriseSearch
metadata:
  name: enterprise-search-quickstart
spec:
  count: 3
podTemplate:
  spec:
    containers:
    - name: enterprise-search
      resources:
        requests:
          cpu: 3
          memory: 8Gi
        limits:
          memory: 8Gi
      env:
      - name: JAVA_OPTS
        value: -Xms7500m -Xmx7500m

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package license
func TestUpdateEnterpriseLicense(t *testing.T) {

    nsn := types.NamespacedName{
        Namespace: "test-ns",
        Name:      "license",
    }

    type args struct {
        c   k8s.Client
        secret v1.Secret
        l   EnterpriseLicense
    }

    tests := []struct {
        name     string
        args     args
        wantErr  bool
        assertion func(k8s.Client)
    }{
        {
            name:  "updates labels preserving existing ones",
            args: args{
                c: k8s.NewFakeClient(&v1.Secret{ObjectMeta: k8s.ToObjectMeta(nsn)}),
                secret: v1.Secret{
                    ObjectMeta: metav1.ObjectMeta{
                        Name:     nsn.Name,
                        Namespace: nsn.Namespace,
                        Labels: map[string]string{
                            "my-label": "value",
                        },
                    },
                },
                l: licenseFixtureV3,
            },
            wantErr: false,
            assertion: func(client k8s.Client) {
                var sec v1.Secret
                err := client.Get(context.Background(), nsn, &sec)
                require.NoError(t, err)
            }
        }
    }
}
require.Equal(t, sec.Labels["my-label"], "value")
require.Contains(t, sec.Labels, LicenseLabelScope)
},
},
{
name: "basic update",
args: args{
c: k8s.NewFakeClient(&v1.Secret{ObjectMeta: k8s.ToObjectMeta(nsn)}),
secret: v1.Secret{
ObjectMeta: k8s.ToObjectMeta(nsn),
},
l: licenseFixtureV3,
},
wantErr: false,
assertion: func(client k8s.Client) {
var sec v1.Secret
err := client.Get(context.Background(), nsn, &sec)
require.NoError(t, err)
require.Equal(t, string(licenseFixtureV3.License.Type), sec.Labels[LicenseLabelType])
require.Equal(t, string(LicenseScopeOperator), sec.Labels[LicenseLabelScope])
require.Len(t, sec.Data, 1)
},
},
}
for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
if err := UpdateEnterpriseLicense(tt.args.c, tt.args.secret, tt.args.l); (err != nil) != tt.wantErr {
t.Errorf("UpdateEnterpriseLicense() error = %v, wantErr %v", err, tt.wantErr)
}
if tt.assertion != nil {
tt.assertion(tt.args.c)
}
})
}

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package license

import {
"context"

esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
"k8s.io/apimachinery/pkg/util/k8s"
"sigs.k8s.io/controller-runtime/pkg/reconcile"
func reconcileRequestsForAllClusters(c k8s.Client) ([]reconcile.Request, error) {
    var clusters esv1.ElasticsearchList
    // list all clusters
    err := c.List(context.Background(), &clusters)
    if err != nil {
        return nil, err
    }
    // create a reconcile request for each cluster
    requests := make([]reconcile.Request, len(clusters.Items))
    for i, cl := range clusters.Items {
        requests[i] = reconcile.Request{NamespacedName: types.NamespacedName{
            Namespace: cl.Namespace,
            Name:      cl.Name,
        }}
    }
    return requests, nil
}

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package trial

import (  
    "context"  
    "encoding/json"  
    "fmt"  
    "strings"  
    "testing"  
    "time"
)

licensing "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"  
"github.com/elastic/cloud-on-k8s/pkg/utils/chrono"  
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"  
"github.com/stretcher/testify/require"  
corev1 "k8s.io/api/core/v1"  
metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"  
k8s.io/apimachinery/pkg/apis/meta/v1"  
"k8s.io/client-go/tools/record"  
"sigs.k8s.io/controller-runtime/pkg/reconcile"
)

const (  
testNs = "ns-1"
trialLicenseName = "eck-trial" // user's choice but constant simplifies test setup
)
var trialLicenseNsn = types.NamespacedName{
Namespace: testNs,
Name:
trialLicenseName,
}
func trialLicenseSecretSample(annotated bool, data map[string][]byte) *corev1.Secret {
sec := corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name:
trialLicenseName,
Namespace: testNs,
Labels: map[string]string{
licensing.LicenseLabelType: "enterprise-trial", // assume always there otherwise watch would not trigger
},
Annotations: map[string]string{},
},
Data: data,
}
if annotated {
sec.Annotations[licensing.EULAAnnotation] = licensing.EULAAcceptedValue
}
return &sec
}
func trialStatusSecretSample(t *testing.T, state licensing.TrialState) *corev1.Secret {
t.Helper()
status, err := licensing.ExpectedTrialStatus(testNs, trialLicenseNsn, state)
require.NoError(t, err)
return &status
}
func trialLicenseBytes() []byte {
return []byte(fmt.Sprintf(
`{"license": {"uid": "x", "type": "enterprise_trial", "issue_date_in_millis": 1, "expiry_date_in_millis": %d,
"issued_to": "x", "issuer": "Elastic k8s operator", "start_date_in_millis": 1, "cluster_licenses": null, "Version": 0}}`,
chrono.ToMillis(time.Now().Add(24*time.Hour)), // simulate a license still valid for 24 hours
))
}
func trialStateSample(t *testing.T) licensing.TrialState {
t.Helper()
state, err := licensing.NewTrialState()
require.NoError(t, err)
return state
}

Open Source Used In SMI 2021.01.0-Jan-2022 28956


func runningTrialSample(t *testing.T) licensing.TrialState {
    t.Helper()
    state := trialStateSample(t)
    state.CompleteTrialActivation()
    return state
}

func simulateLicenseInit(t *testing.T, k k8s.Client, secret corev1.Secret) licensing.TrialState {
    t.Helper()
    l := licensing.EnterpriseLicense{
        License: licensing.LicenseSpec{
            Type: licensing.LicenseTypeEnterpiseTrial,
        },
    }
    state, err := licensing.NewTrialState()
    require.NoError(t, err)
    err = state.InitTrialLicense(&l)
    require.NoError(t, err)
    require.NoError(t, licensing.UpdateEnterpriseLicense(k, secret, l))
    return state
}

func simulateRunningTrial(t *testing.T, k k8s.Client, secret corev1.Secret) {
    t.Helper()
    state := simulateLicenseInit(t, k, secret)
    state.CompleteTrialActivation()
    statusSecret := trialStatusSecretSample(t, state)
    require.NoError(t, k.Create(context.Background(), statusSecret))
}

func TestReconcileTrials_Reconcile(t *testing.T) {
    requireValidationMsg := func(msg string) func(c k8s.Client) {
        return func(c k8s.Client) {
            var sec corev1.Secret
            require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
            err, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
            require.True(t, ok, "invalid annotation present")
            require.Equal(t, msg, err)
            require.Equal(t, msg, err)
        }
    }
    requireNoValidationMsg := func(c k8s.Client) {
        var sec corev1.Secret
        require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
        _, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
        require.False(t, ok, "no invalid annotation expected")
    }
    requireNoValidationMsg := func(c k8s.Client) {
        var sec corev1.Secret
        require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
        _, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
        require.False(t, ok, "no invalid annotation expected")
    }
}
requireValidTrial := func(c k8s.Client) {
    var sec corev1.Secret
    require.NoError(t, c.Get(context.Background(), types.NamespacedName{
        Name:   licensing.TrialStatusSecretKey,
        Namespace: testNs,
    }, &sec))
    require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
    pubKeyBytes := sec.Data[licensing.TrialPubkeyKey]
    key, err := licensing.ParsePubKey(pubKeyBytes)
    require.NoError(t, err)
    _, lic, err := licensing.TrialLicense(c, trialLicenseNsn)
    require.NoError(t, err)
    require.NoError(t, lic.IsMissingFields())
    verifier := licensing.Verifier{PublicKey: key}
    require.NoError(t, verifier.ValidSignature(lic))
    requireNoValidationMsg(c)
}

type fields struct {
    Client     k8s.Client
    trialState licensing.TrialState
}

tests := []struct {
    name       string
    fields     fields
    wantErr    bool
    assertions func(c k8s.Client)
}{
    {
        name: "trial secret needs accepted EULA",
        fields: fields{
            Client: k8s.NewFakeClient(trialLicenseSecretSample(false, nil)),
        },
        wantErr: false,
        assertions: requireValidationMsg(EULAValidationMsg),
    },
    {
        name: "valid trial secret inits trial",
        fields: fields{
            Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)),
        },
        wantErr: false,
        assertions: requireValidTrial,
    },
    {
        name: "valid trial after operator restart",
        fields: fields{
            Client: func() k8s.Client {
                return k8s.NewFakeClient(trialLicenseSecretSample(true, nil))
            }
        },
        wantErr: false,
        assertions: requireValidTrial,
    },
}
trialLicense := trialLicenseSecretSample(true, nil)
client := k8s.NewFakeClient(trialLicense)
simulateRunningTrial(t, client, *trialLicense)
return client
}

wantErr: false,
assertions: requireValidTrial,
}

name: "can start trial after error during trial status retrieval",
fields: func() fields {
    trialLicense := trialLicenseSecretSample(true, nil)
    client := k8s.NewFakeClient(trialLicense)
    state := simulateLicenseInit(t, client, *trialLicense) // no trial status
    return fields{
        Client: client,
        trialState: state,
    }
},

wantErr: false,
assertions: requireValidTrial,

name: "can start trial after error during trial status creation",
fields: fields{
    Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)), // no trial status
    trialState: trialStateSample(t),
},

wantErr: false,
assertions: requireValidTrial,

name: "can start trial after operator crash during trial activation",
fields: fields{
    Client: func() k8s.Client {
        // simulating operator crash right after trial status has been written
        status, err := licensing.ExpectedTrialStatus(testNs, trialLicenseNsn, trialStateSample(t))
        require.NoError(t, err)
        return k8s.NewFakeClient(trialLicenseSecretSample(true, nil), &status)
    }(),
},

wantErr: false,
assertions: requireValidTrial,

name: "invalid: external trial status modification is not allowed once trial is running",
fields: fields{
Client: k8s.NewFakeClient(
    trialLicenseSecretSample(true, nil),
    trialStatusSecretSample(t, trialStateSample(t), // simulate a different key
    ),
    trialState: runningTrialSample(t),
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},

name: "external trial status modification is compensated while trial is being activated",
fields: fields{
Client: k8s.NewFakeClient(
    trialLicenseSecretSample(true, nil),
    trialStatusSecretSample(t, trialStateSample(t)), // simulating a different key
    ),
    trialState: trialStateSample(t),
},
wantErr: false,
assertions: requireValidTrial,
},

name: "invalid: trial running but no status secret",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)),
    trialState: runningTrialSample(t),
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},

name: "invalid: restarting a running trial",
fields: fields{
Client: k8s.NewFakeClient(
    // user creates a new trial secret
    trialLicenseSecretSample(true, nil),
    trialStatusSecretSample(t, trialStateSample(t)),
    ),
    trialState: runningTrialSample(t), // but trial is already running
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},

name: "invalid: license signature",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, map[string][]byte{
}}
"license": trialLicenseBytes(),
}), &corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name: licensing.TrialStatusSecretKey,
Namespace: testNs,
},
},
}
}
}
}
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    r := &ReconcileTrials{
      Client:            tt.fields.Client,
      recorder:          record.NewFakeRecorder(10),
      trialState:        tt.fields.trialState,
      operatorNamespace: testNs,
    }
    __, err := r.Reconcile(context.Background(), reconcile.Request{
      NamespacedName: types.NamespacedName{
        Namespace: testNs,
        Name:      trialLicenseName,
      },
    })
    if (err != nil) != tt.wantErr {
      t.Errorf(tt.wantErr, __)
t.Errorf("Reconcile() error = %v, wantErr %v", err, tt.wantErr)
return
}
if tt.assertions != nil {
tt.assertions(tt.fields.Client)
}

func TestReconcileTrials_reconcileTrialStatus(t *testing.T) {
    var licenseSample licensing.EnterpriseLicense
    require.NoError(t, json.Unmarshal(trialLicenseBytes(), &licenseSample))

    assertTrialActivationState := func(r *ReconcileTrials, status corev1.Secret) {
        require.False(t, r.trialState.IsTrialStarted())
        require.Equal(t, status.Data[licensing.TrialActivationKey], []byte("true"))
        require.Contains(t, status.Data, licensing.TrialPubkeyKey)
    }

    assertTrialRunningState := func(r *ReconcileTrials, status corev1.Secret) {
        require.True(t, r.trialState.IsTrialStarted())
        require.NotContains(t, status.Data, licensing.TrialActivationKey)
        require.Contains(t, status.Data, licensing.TrialPubkeyKey)
    }

    type fields struct {
        Client     k8s.Client
        trialState licensing.TrialState
        license    licensing.EnterpriseLicense
    }
    tests := []struct {
        name       string
        fields     fields
        wantErr    bool
        assertions func(*ReconcileTrials, corev1.Secret)
    }{
        name: "starts trial activation and creates status",
        fields: fields{
            Client: k8s.NewFakeClient(),
        },
        wantErr:  false,
        assertions: assertTrialActivationState,
    },
    name: "recreates missing trial status during trial activation",
    fields: fields{
Client: k8s.NewFakeClient(),
trialState: trialStateSample(t),
}
wantErr: false,
assertions: assertTrialActivationState,
}
{name: "recreates missing trial status after trial activation",
fields: fields{
Client: k8s.NewFakeClient(),
trialState: runningTrialSample(t),
}
wantErr: false,
assertions: assertTrialRunningState,
}.

{name: "restore trial status memory on operator restart during activation: ok",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))),
}
wantErr: false,
assertions: assertTrialActivationState,
}
{name: "restore trial status memory on operator restart during trial: ok",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, runningTrialSample(t))),
}
wantErr: false,
assertions: assertTrialRunningState,
}
{name: "restore trial status memory on operator restart: fail",
fields: fields{
Client: k8s.NewFakeClient(&corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name: licensing.TrialStatusSecretKey,
Namespace: testNs,
},
Data: map[string][]byte{
licensing.TrialPubkeyKey: []byte("garbage"),
},
}),
wantErr: true,
}.
name: "don't go back to activation state if a populated license exists",
fields: fields{
  Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))), // status still in activation phase
  license: licenseSample,
},
wantErr: false,
assertions: assertTrialRunningState,
}

name: "update trial status from memory",
fields: fields{
  Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))),
  trialState: runningTrialSample(t),
},
wantErr: false,
assertions: assertTrialRunningState,
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    r := &ReconcileTrials{
      Client: tt.fields.Client,
      recorder: record.NewFakeRecorder(10),
      trialState: tt.fields.trialState,
      operatorNamespace: testNs,
    }
    if err := r.reconcileTrialStatus(trialLicenseNsn, tt.fields.license); (err != nil) != tt.wantErr {
      t.Errorf("reconcileTrialStatus() error = %v, wantErr %v", err, tt.wantErr)
    }
    if tt.assertions != nil {
      var sec corev1.Secret
      require.NoError(t, r.Get(context.Background(), types.NamespacedName{
        Namespace: testNs,
        Name: licensing.TrialStatusSecretKey,
      }, &sec))
      tt.assertions(r, sec)
    }
  })
}

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================================================================================
Third party libraries used by the Elastic Cloud on Kubernetes project
================================================================================
Module: github.com/Masterminds/sprig/v3
Version: v3.2.2
Time: 2021-02-04T20:32:52Z
Licence: MIT

Contents of probable licence file $GOMODCACHE/github.com/Masterminds/sprig/v3@v3.2.2/LICENSE.txt:

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Module: github.com/blang/semver/v4
Version: v4.0.0
Licence: MIT

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--------------------------------------------------------------------------------
Module : github.com/davecgh/go-spew
Version : v1.1.1
Time    : 2018-02-21T23:26:28Z
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--------------------------------------------------------------------------------
Module : github.com/elastic/go-ucfg
Version : v0.8.3
Time    : 2020-02-20T11:45:39Z
Licence : Apache-2.0

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Version : v1.0.0
Time : 2017-03-27T23:54:44Z
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Version : v0.4.0
Time    : 2021-01-23T00:09:52Z
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Version : v1.0.7
Time    : 2020-07-11T22:05:12Z
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Version : v0.2.3
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Module : github.com/prometheus/common
Version : v0.26.0
Time    : 2021-06-03T08:22:19Z
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Module : github.com/sethvargo/go-password
Version : v0.2.0
Time    : 2020-07-05T15:15:25Z
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Module : github.com/spf13/cobra
Version : v1.2.1
Time    : 2021-07-02T15:25:47Z
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Version : v1.12.0
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Module : go.uber.org/automaxprocs
Version : v1.4.0
Time    : 2021-02-02T17:51:55Z
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Module : gopkg.in/yaml.v2
Version : v2.4.0
Time : 2020-11-17T15:46:20Z
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Time: 2021-01-07T19:29:22Z
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Version: v0.21.2
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Module : k8s.io/utils
Version : v0.0.0-20210527160623-6fdb442a123b
Time : 2021-05-27T16:06:23Z
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Version : v0.9.2
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Version : v0.3.1
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Module : github.com/OneOfOne/xxhash
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Module    : github.com/PuerkitoBio/purell
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Module : github.com/PuerkitoBio/urlesc
Version : v0.0.0-20170810143723-de5bf2ad4578
Time    : 2017-08-10T14:37:23Z
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Module : github.com/alecthomas/template
Version : v0.0.0-20190718012654-fb15b899a751
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Module : github.com/alecthomas/units
Version : v0.0.0-20190924025748-f65c72e2690d
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Module : github.com/antihax/optional
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Module  : github.com/armon/go-metrics
Version : v0.3.0
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Module : github.com/asaskevich/govalidator
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Module : github.com/beorn7/perks
Version : v1.0.1
Time    : 2019-07-31T12:00:54Z
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Module : github.com/bgentry/speakeasy
Version : v0.1.0
Time    : 2017-04-17T20:07:03Z
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Module : github.com/bketelsen/crypt
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Module : github.com/blang/semver
Version : v3.5.1+incompatible
Time    : 2017-07-27T06:48:18Z
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Module  : github.com/bmizerany/perks
Version : v0.0.0-20141205001514-d9a9656a3a4b
Time    : 2014-12-05T00:15:14Z
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Module  : github.com/census-instrumentation/opencensus-proto
Version : v0.2.1
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Module : github.com/cespare/xxhash
Version : v1.1.0
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Module : github.com/cespare/xxhash/v2
Version : v2.1.1
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Module : github.com/chzyer/logex
Version : v1.1.10
Time    : 2015-10-10T15:13:41Z
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Module : github.com/chzyer/readline
Version : v0.0.0-20180603132655-2972be24d48e
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Module : github.com/chzyer/test
Version : v0.0.0-20180213035817-a1ea475d72b1
Time : 2018-02-13T03:58:17Z
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Module : github.com/circonus-labs/circonus-gometrics
Version : v2.3.1+incompatible
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Module : github.com/circonus-labs/circonusllhist
Version : v0.1.3
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Module : github.com/client9/misspell
Version : v0.3.4
Time    : 2018-03-09T01:55:12Z
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Module : github.com/cncf/udpa/go
Version : v0.0.0-20201120205902-5459f2c99403
Time    : 2020-11-20T20:59:02Z
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Version : v2.0.0
Time    : 2019-03-14T23:30:15Z
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Version : v3.2.0+incompatible
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Module : github.com/dustin/go-humanize
Version : v1.0.0
Time    : 2018-07-13T05:29:10Z
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Module : github.com/elastic/go-licenser
Version : v0.3.1
Time    : 2019-10-14T11:24:07Z
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Module : github.com/emicklei/go-restful
Version : v2.9.5+incompatible
Time    : 2019-05-16T08:07:22Z
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Module : github.com/envoyproxy/go-control-plane
Version : v0.9.9-0.20210217033140-668b12f5399d
Time    : 2021-02-17T03:31:40Z
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Module : github.com/fatih/color
Version : v1.12.0
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Module : github.com/form3tech-oss/jwt-go
Version : v3.2.2+incompatible
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Module: github.com/go-asn1-ber/asn1-ber
Version: v1.3.1
Time: 2019-11-05T00:34:16Z
Licence: MIT

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Module: github.com/go-gl/glfw
Version: v0.0.0-20190409004039-e6da0acd62b1
Time: 2019-04-09T00:40:39Z
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Module : github.com/go-gl/glfw/v3.3/glfw
Version : v0.0.0-20200222043503-6f7a984d4dc4
Time    : 2020-02-22T04:35:03Z
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Module : github.com/go-kit/kit
Version : v0.9.0
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Module : github.com/go-kit/log
Version : v0.1.0
Time    : 2021-06-02T02:03:10Z
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Module : github.com/go-ldap/ldap/v3
Version : v3.1.3
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Module  : github.com/go-logfmt/logfmt
Version : v0.5.0
Time    : 2020-01-04T05:22:39Z
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Module  : github.com/go-logr/zapr
Version : v0.4.0
Time    : 2021-01-23T00:04:02Z
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Version : v0.19.3
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Version : v0.19.3
Time    : 2019-09-08T00:30:40Z
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Version : v1.3.2
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Version : v0.5.5
Time : 2021-04-26T16:04:49Z
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Version: v1.4.2
Time: 2020-03-19T17:50:51Z
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Version : v0.0.0-20180305231024-9cad4c3443a7
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Module : github.com/jessevdk/go-flags
Version : v1.4.0
Time    : 2018-03-31T11:19:16Z
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Module : github.com/jmespath/go-jmespath
Version : v0.0.0-20180206201540-c2b33e8439af
Time    : 2018-02-06T20:15:40Z
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Module : github.com/joeshaw/multierror
Version : v0.0.0-20140124173710-69b34d4ec901
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Module : github.com/jpillora/backoff
Version : v1.0.0
Time    : 2019-10-03T12:57:08Z
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Module : github.com/json-iterator/go
Version : v1.1.11
Time    : 2020-11-18T01:31:58Z
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Module : github.com/jstemmer/go-junit-report
Version : v0.9.1
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Module : github.com/jtolds/gls
Version : v4.20.0+incompatible
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Module : github.com/julienschmidt/httprouter
Version : v1.3.0
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Module : github.com/kisielk/errcheck
Version : v1.5.0
Time    : 2021-01-05T19:12:31Z
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Module : github.com/kisielk/gotool
Version : v1.0.0
Time    : 2018-02-21T18:54:26Z
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match.go, match_test.go:

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Module : github.com/konsorten/go-windows-terminal-sequences
Version : v1.0.3
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Module : github.com/kr/fs
Version : v0.1.0
Time    : 2018-05-06T03:17:01Z
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Module : github.com/kr/logfmt
Version : v0.0.0-20140226030751-b84e30acd515
Time    : 2014-02-26T03:07:51Z
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Module : github.com/kr/pretty
Version : v0.2.0
Time : 2019-12-31T23:40:08Z
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Module : github.com/kr/pty
Version : v1.1.5
Time : 2019-04-01T03:15:51Z
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Module : github.com/kr/text
Version : v0.2.0
Time    : 2020-02-14T20:31:06Z
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Module : github.com/mailru/easyjson
Version : v0.7.0
Time    : 2019-09-10T11:06:03Z
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Module : github.com/mattn/go-colorable
Version : v0.1.8
Time    : 2020-10-03T12:20:15Z
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Module  : github.com/mattn/go-isatty
Version : v0.0.12
Time    : 2020-01-21T17:27:41Z
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Module  : github.com/mattn/go-runewidth
Version : v0.0.2
Time    : 2017-02-01T02:26:20Z
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Module : github.com/matttproud/golang_protobuf_extensions
Version : v1.0.2-0.20181231171920-c182affec369
Time : 2018-12-31T17:19:20Z
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Module : github.com/mitchellh/cli
Version : v1.0.0
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Module : github.com/mitchellh/gox
Version : v0.4.0
Time    : 2016-07-25T18:46:46Z
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Module : github.com/mitchellh/iochan
Version : v1.0.0
Time : 2018-08-24T03:58:58Z
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Module : github.com/mitchellh/mapstructure
Version : v1.4.1
Time : 2021-01-12T04:20:08Z
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Module  : github.com/mitchellh/reflectwalk
Version : v1.0.0
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Version : v0.2.0
Time    : 2021-01-28T04:18:15Z
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Time : 2019-10-10T08:34:16Z
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Module : github.com/mxk/go-flowrate
Version : v0.0.0-20140419014527-cca7078d478f
Time : 2014-04-19T01:45:27Z
Licence : BSD-3-Clause

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Module : github.com/niemeyer/pretty
Version : v0.0.0-20200227124842-a10e7caef8e
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--------------------------------------------------------------------------------
Module : github.com/nxadm/tail
Version : v1.4.8
Time : 2021-02-07T16:08:07Z
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Module : github.com/oklog/run
Version : v1.0.0
Time : 2017-11-14T00:29:35Z
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Module : github.com/oklog/ulid
Version : v1.3.1
Time    : 2018-10-02T12:43:06Z
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Module : github.com/olekukkonko/tablewriter
Version : v0.0.0-20170122224234-a0225b3f23b5
Time    : 2017-01-22T22:42:34Z
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localtime.go, localtime_test.go:

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https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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Module : github.com/pierrec/lz4
Version : v2.0.5+incompatible
Time    : 2018-08-30T18:52:49Z
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Module : github.com/pkg/sftp
Version : v1.10.1
Time    : 2019-08-26T01:40:38Z
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module: github.com/pmezard/go-difflib
version: v1.0.0
time: 2016-01-10T10:55:54Z
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module: github.com/posener/complete
version: v1.1.1
time: 2018-03-09T06:24:32Z
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Module : github.com/pquerna/cachecontrol
Version : v0.0.0-20171018203845-0dec1b30a021
Time : 2017-10-18T20:38:45Z
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Module : github.com/sean-/seed
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Time    : 2017-03-13T16:33:22Z
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Version : v1.7.0
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Module : github.com/smartystreets/goconvey
Version : v1.6.4
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Module : github.com/soheilhy/cmux
Version : v0.1.4
Time : 2018-01-29T15:50:01Z
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Version : v0.0.0-20180118202830-f09979ecbc72
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Module : github.com/spf13/afero
Version : v1.6.0
Time    : 2021-03-20T14:22:17Z
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Module : github.com/spf13/cast
Version : v1.3.1
Time    : 2019-12-18T07:28:14Z
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Module : github.com/spf13/jwalterweatherman
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Module : github.com/stoewer/go-strcase
Version : v1.2.0
Time    : 2020-02-26T19:38:00Z
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Module : github.com/streadway/quantile
Version : v0.0.0-20150917103942-b0c588724d25
Time : 2015-09-17T10:39:42Z
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Module : github.com/stretchr/objx
Version : v0.2.0
Time    : 2019-04-09T12:31:02Z
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Module : github.com/subosito/gotenv
Version : v1.2.0
Time    : 2019-08-03T14:02:50Z
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Module: github.com/tmc/grpc-websocket-proxy
Version: v0.0.0-20190109142713-0ad062ec5ee5
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Module : github.com/tv42/httpunix
Version : v0.0.0-20150427012821-b75d8614f926
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Module : github.com/urfave/cli
Version : v1.20.0
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Module : github.com/xiang90/probing
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Time    : 2019-01-16T06:12:07Z
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Module : github.com/yuin/goldmark
Version : v1.3.5
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Version : v1.12.0
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Version: v1.3.5
Time: 2020-06-15T07:38:12Z
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Version : v0.0.0-20200224162631-6cc2880d07d6
Time    : 2020-02-24T16:26:31Z
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Module : golang.org/x/mobile
Version : v0.0.0-20190719004257-d2bd2a29d028
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Module : golang.org/x/net
Version : v0.0.0-20210428140749-89ef3d95e781
Time    : 2021-04-28T14:07:49Z
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Module : golang.org/x/oauth2
Version : v0.0.0-20210402161424-2e8d93401602
Time    : 2021-04-02T16:14:24Z
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Module: golang.org/x/sync
Version: v0.0.0-20210220032951-036812b2e83c
Time: 2021-02-20T03:29:51Z
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Module : golang.org/x/term
Version : v0.0.0-20210220032956-6a3ed077a48d
Time : 2021-02-20T03:29:56Z
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Module : golang.org/x/text
Version : v0.3.6
Time    : 2021-03-30T05:48:03Z
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Version : v0.0.0-20210611083556-38a9dc6acbc6
Time    : 2021-06-11T08:35:56Z
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Module: golang.org/x/tools
Version: v0.1.3
Time: 2021-06-09T21:40:20Z
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Module: golang.org/x/xerrors
Version: v0.0.0-20200804184101-5ec99f83aff1
Time: 2020-08-04T18:41:01Z
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Version : v2.2.0
Time    : 2021-05-19T16:08:02Z
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Version : v0.0.0-20181121035319-3f7ecaa7e8ca
Time : 2018-11-21T03:53:19Z
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Module : gonum.org/v1/netlib
Version : v0.0.0-20181029234149-ec6d1f5cefe6
Time : 2018-10-29T23:41:49Z
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Version : v0.44.0
Time    : 2021-04-07T19:07:32Z
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Version : v1.6.7
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Module : gopkg.in/inf.v0
Version : v0.9.1
Time : 2018-03-26T17:23:32Z
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Module : gopkg.in/ini.v1
Version : v1.62.0
Time    : 2020-10-06T07:31:30Z
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Module : gopkg.in/natefinch/lumberjack.v2
Version : v2.0.0
Time : 2018-08-17T14:57:47Z
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Module : gopkg.in/resty.v1
Version : v1.12.0
Time    : 2019-02-28T07:26:48Z
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Version: v2.5.1
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Version : v3.0.3
Time    : 2020-09-27T20:53:12Z
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Version : v0.21.2
Time    : 2021-06-17T22:52:48Z
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Module : k8s.io/gengo
Version : v0.0.0-20201214224949-b6c5ce23f027
Time    : 2020-12-14T22:49:49Z
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Time : 2021-02-27T03:20:38Z
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Module : sigs.k8s.io/yaml
Version : v1.2.0
Time    : 2020-02-04T15:11:26Z
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** Generated documentation. Please do not edit. **

:page_id: dependencies

ifdef::env-github[

****

link:https://www.elastic.co/guide/en/cloud-on-k8s/master/k8s-\{page_id\}.html[View this document on the Elastic website]

****

endif::[]

---
This page lists the third-party dependencies used to build \( n \).

== Direct dependencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Licence</th>
</tr>
</thead>
</table>

== Indirect dependencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Licence</th>
</tr>
</thead>
</table>

// Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
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package license

import (  
"context"  
"sort"  
"time"

"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"  
"github.com/pkg/errors"  
corev1 "k8s.io/api/core/v1"  
"k8s.io/apimachinery/pkg/types"
)

const (  
// EventInvalidLicense describes an event fired when a license is not valid.  
EventInvalidLicense = "InvalidLicense"
)
type Checker interface {
    CurrentEnterpriseLicense() (*EnterpriseLicense, error)
    EnterpriseFeaturesEnabled() (bool, error)
    Valid(l EnterpriseLicense) (bool, error)
}

// checker contains parameters for license checks.
type checker struct {
    k8sClient         k8s.Client
    operatorNamespace string
    publicKey         []byte
}

// NewLicenseChecker creates a new license checker.
func NewLicenseChecker(client k8s.Client, operatorNamespace string) Checker {
    return &checker{
        k8sClient:     client,
        operatorNamespace: operatorNamespace,
        publicKey:     publicKeyBytes,
    }
}

func (lc *checker) publicKeyFor(l EnterpriseLicense) ([]byte, error) {
    if !l.IsECKManagedTrial() {
        return lc.publicKey, nil
    }

    var signatureSec corev1.Secret
    err := lc.k8sClient.Get(context.Background(), types.NamespacedName{
        Namespace: lc.operatorNamespace,
        Name:      TrialStatusSecretKey,
    }, &signatureSec)

    return signatureSec.Data[TrialPubkeyKey], err
}

// CurrentEnterpriseLicense returns the currently valid Enterprise license if installed.
func (lc *checker) CurrentEnterpriseLicense() (*EnterpriseLicense, error) {
    licenses, err := EnterpriseLicenses(lc.k8sClient)
    if err != nil {
        return nil, errors.Wrap(err, "failed to list enterprise licenses")
    }

    sort.Slice(licenses, func(i, j int) bool {
        t1, t2 := EnterpriseLicenseTypeOrder[licenses[i].License.Type],
                  EnterpriseLicenseTypeOrder[licenses[j].License.Type]
        if t1 != t2 { // sort by type (first the most features)
            return t1 > t2
        }
    })

    return licenses[0], nil
}
// and by expiry date (first which expires last)
return licenses[i].License.ExpiryDateTimeInMillis > licenses[j].License.ExpiryDateTimeInMillis
})

// pick the first valid Enterprise license in the sorted slice
for _, l := range licenses {
valid, err := lc.Valid(l)
if err != nil {
return nil, err
}
if valid {
return &l, nil
}
return nil, nil
}

// EnterpriseFeaturesEnabled returns true if a valid enterprise license is installed.
func lc *checker) EnterpriseFeaturesEnabled() (bool, error) {
license, err := lc.CurrentEnterpriseLicense()
if err != nil {
return false, err
}
return license != nil, nil
}

// Valid returns true if the given Enterprise license is valid or an error if any.
func lc *checker) Valid(l EnterpriseLicense) (bool, error) {
pk, err := lc.publicKeyFor(l)
if err != nil {
return false, errors.Wrap(err, "while loading signature secret")
}
if len(pk) == 0 {
log.Info("This is an unlicensed development build of ECK. License management and Enterprise features are disabled")
return false, nil
}
verifier, err := NewVerifier(pk)
if err != nil {
return false, err
}
status := verifier.Valid(l, time.Now())
if status == LicenseStatusValid {
return true, nil
}
return false, nil
}
type MockChecker struct {
    MissingLicense bool
}

func (m MockChecker) CurrentEnterpriseLicense() (*EnterpriseLicense, error) {
    return &EnterpriseLicense{}, nil
}

func (m MockChecker) EnterpriseFeaturesEnabled() (bool, error) {
    return !m.MissingLicense, nil
}

func (m MockChecker) Valid(l EnterpriseLicense) (bool, error) {
    return !m.MissingLicense, nil
}

var _ Checker = &MockChecker{

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package license

import (
    "crypto/rand"
    "crypto/rsa"
    "crypto/x509"
    "encoding/base64"
    "reflect"
    "testing"
    "time"

    "github.com/go-test/deep"

    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
)

func TestLicenseVerifier_ValidSignature(t *testing.T) {
    rnd := rand.Reader
    privKey, err := rsa.GenerateKey(rnd, 2048)
    assert.NoError(t, err)
    tests := []struct {
        name        string
        args        EnterpriseLicense
    }
verifyInput func(EnterpriseLicense) EnterpriseLicense
wantErr bool
{
    {
        name: "valid v3 license",
        args: licenseFixtureV3,
        wantErr: false,
    },
    {
        name: "valid v4 license",
        args: licenseFixtureV4,
        wantErr: false,
    },
    {
        name: "tampered v3 license",
        args: licenseFixtureV3,
        verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
            l.License.MaxInstances = 1
            return l
        },
        wantErr: true,
    },
    {
        name: "tampered v4 license",
        args: licenseFixtureV4,
        verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
            l.License.MaxResourceUnits = 1
            return l
        },
        wantErr: true,
    },
    {
        name: "empty signature",
        args: licenseFixtureV4,
        verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
            l.License.Signature = ""
            return l
        },
        wantErr: true,
    },
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        v := NewSigner(privKey)
        sig, err := v.Sign(tt.args)
        require.NoError(t, err)
        toVerify := withSignature(tt.args, sig)
        if tt.verifyInput != nil {
            tt.verifyInput(toVerify)
        }
    })
}
func TestNewLicenseVerifier(t *testing.T) {
    privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
    require.NoError(t, err)

    publicKey := privKey.PublicKey
    pubKeyBytes, err := x509.MarshalPKIXPublicKey(&publicKey)
    assert.NoError(t, err)

    tests := []struct {
        name string
        want func(verifier *Verifier)
    }{
        // Can create verifier from pub key bytes
        name: "Can create verifier from pub key bytes",
        want: func(v *Verifier) {
            require.NoError(t, v.ValidSignature(licenseFixtureV3))
        },
        // Detects tampered license
        name: "Detects tampered license",
        want: func(v *Verifier) {
            l := licenseFixtureV3
            l.License.Issuer = "me"
            require.Error(t, v.ValidSignature(l))
        },
        // Detects empty signature
        name: "Detects empty signature",
        want: func(v *Verifier) {
            l := licenseFixtureV3
            l.License.Signature = ""
            require.Error(t, v.ValidSignature(l))
        },
        // Detects malicious signature
        name: "Detects malicious signature",
        want: func(v *Verifier) {
            malice := make([]byte, base64.StdEncoding.DecodedLen(len(signatureFixtureV3)))
            _, err := base64.StdEncoding.Decode(malice, signatureFixtureV3)
            require.NoError(t, err)
        },
    }

    // Verify inputs
    for _, tt := range tests {
        toVerify = tt.verifyInput(toVerify)
        if err := v.ValidSignature(toVerify); (err != nil) != tt.wantErr {
            t.Errorf("Verifier.ValidSignature() error = %v, wantErr %v", err, tt.wantErr)
        }
    }
}
require.NoError(t, err)

// inject max uint32 as the magic length
malice[5] = 255
malice[6] = 255
malice[7] = 255
malice[8] = 255
tampered := make([]byte, base64.StdEncoding.EncodedLen(len(malice)))
base64.StdEncoding.Encode(tampered, malice)
err = v.ValidSignature(withSignature(licenseFixtureV3, tampered))
require.Error(t, err)
assert.Contains(t, err.Error(), "magic")
}
}

{name: "Can recalculate signature",
want: func(v *Verifier) {
    signer := NewSigner(privKey)
    bytes, err := signer.Sign(licenseFixtureV3)
    require.NoError(t, err)
    require.NoError(t, v.ValidSignature(withSignature(licenseFixtureV3, bytes)))
},
}

{name: "Can verify license signed by external tooling",
want: func(v *Verifier) {
    // license attributes contain <> and & which json.Marshal escapes by default leading to a signature
    // mismatch unless handled explicitly
    lic, err := externallySignedLicenseFixture()
    require.NoError(t, err)
    require.NoError(t, v.ValidSignature(lic))
},
}

{name: "Can produce same signature as external tooling",
want: func(v *Verifier) {
    signer := NewSigner(privKey)
    licenseSpec := EnterpriseLicense{
        License: LicenseSpec{
            UID: "F983C1D2-1676-4427-8B6A-EF954AECEC174",
            Type: "enterprise",
            IssueDateInMillis: 1606262400000,
            ExpiryDateInMillis: 1640995199999,
            MaxResourceUnits: 100,
            IssuedTo: "ECK Unit & test <>",
            Issuer: "ECK Unit tests",
            StartDateInMillis: 1606262400000,
            ClusterLicenses: nil,
            Version: 4,
        }
    }
    require.NoError(t, err)
    require.NoError(t, v.ValidSignature(lic))
},
}
sig, err := signer.Sign(licenseSpec)
require.NoError(t, err)
require.NoError(t, v.ValidSignature(withSignature(licenseSpec, sig)))

lic, err := externallySignedLicenseFixture()
require.NoError(t, err)

expectedBytes, err := base64.StdEncoding.DecodeString(lic.License.Signature)
require.NoError(t, err)
actualBytes, err := base64.StdEncoding.DecodeString(string(sig))
require.NoError(t, err)

// some jiggery-pokery with knowledge of signature internals here to remove the random bits to allow a stable
//comparison
require.Nil(t, deep.Equal(append(expectedBytes[:7], expectedBytes[21:]), append(actualBytes[:7],
actualBytes[21:])))

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        got, err := NewVerifier(pubKeyBytes)
        if err != nil {
            t.Errorf("NewVerifier() error = %v", err)
            return
        }
        if tt.want != nil {
            tt.want(got)
        }
    })
}

func TestVerifier_Valid(t *testing.T) {
    type fields struct {
        PublicKey *rsa.PublicKey
    }
    type args struct {
        l   EnterpriseLicense
        now time.Time
    }
    tests := [...]struct {
        name string
        fields fields
        args args
        want LicenseStatus
    }{
{ name: "valid license",
fields: fields{
  PublicKey: publicKeyFixture(t),
},
args: args{
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-02-01"),
},
want: LicenseStatusValid,
},

{ name: "expired license",
fields: fields{
  PublicKey: publicKeyFixture(t),
},
args: args{
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-08-01"),
},
want: LicenseStatusExpired,
},

{ name: "invalid signature",
fields: fields{
  PublicKey: func() *rsa.PublicKey {
    priv, err := rsa.GenerateKey(rand.Reader, 2048)
    require.NoError(t, err)
    return &priv.PublicKey
  }(),
},
args: args{
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-03-01"),
},
want: LicenseStatusInvalid,
}
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    v := &Verifier{
      PublicKey: tt.fields.PublicKey,
    }
    if got := v.Valid(tt.args.l, tt.args.now); !reflect.DeepEqual(got, tt.want) {
      t.Errorf("Verifier.Valid() = %v, want %v", got, tt.want)
    }
  })
}
func Test_nextReconcileRelativeTo(t *testing.T) {
    now := chrono.MustParseTime("2019-02-01")
    type args struct {
        expiry time.Time
        safety time.Duration
    }
    tests := []struct {
        name string
        args args
        want reconcile.Result
    }{
        name: "no expiry found, retry after ",
        args: args{
            expiry: time.Time{},
            safety: 30 * 24 * time.Hour,
        },
        want: reconcile.Result{
            RequeueAfter: minimumRetryInterval,
        },
    }
}
var cluster = &esv1.Elasticsearch{
    ObjectMeta: metav1.ObjectMeta{
        Name:      "cluster",
        Namespace: "namespace",
    },
    Spec: esv1.ElasticsearchSpec{
        Version: "8.0.0",
    },
}

func enterpriseLicense(t *testing.T, licenseType client.ElasticsearchLicenseType, maxNodes int, expired bool) *corev1.Secret {
    t.Helper()
    expiry := time.Now().Add(31 * 24 * time.Hour)
    if expired {
        expiry = time.Now().Add(-24 * time.Hour)
    }
    license := commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            ExpiryDateInMillis: expiry.Unix() * 1000,
            StartDateInMillis: time.Now().Add(-1*time.Minute).Unix() * 1000,
        },
        ClusterLicenses: []commonlicense.ElasticsearchLicense{}}
License: client.License{
ExpiryDateInMillis: expiry.Unix() * 1000,
StartDateInMillis: time.Now().Add(-1*time.Minute).Unix() * 1000,
Type: string(licenseType),
MaxNodes: maxNodes,
Signature: "blah",
}
}
}
}
}
bytes, err := json.Marshal(license)
require.NoError(t, err)
return &corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Labels: commonlicense.LabelsForOperatorScope(license.License.Type),
},
Data: map[string][]byte{
commonlicense.FileName: bytes,
},
}
}

func TestReconcileLicenses_reconcileInternal(t *testing.T) {
tests := []struct {
name        string
cluster     *esv1.Elasticsearch
k8sResources []runtime.Object
wantErr      string
wantNewLicense bool
wantRequeue  bool
wantRequeueAfter bool
}
{
name:   "no existing license: nothing to do",
cluster: cluster,
k8sResources: []runtime.Object{cluster},
wantErr: "",
wantNewLicense: false,
wantRequeue: false,
wantRequeueAfter: false,
},
{
name:   "existing gold matching license",
cluster: cluster,
k8sResources: []runtime.Object{enterpriseLicense(t, client.ElasticsearchLicenseTypeGold, 1, false),

cluster,
},
wantErr: "",
wantNewLicense: true,
wantRequeue: false,
wantRequeueAfter: true,
},

{name: "existing platinum matching license",
cluster: cluster,
k8sResources: []runtime.Object{
enterpriseLicense(t, client.ElasticsearchLicenseTypePlatinum, 1, false),
cluster,
},
wantErr: "",
wantNewLicense: true,
wantRequeue: false,
wantRequeueAfter: true,
},

{name: "existing license expired",
cluster: cluster,
k8sResources: []runtime.Object{
enterpriseLicense(t, client.ElasticsearchLicenseTypePlatinum, 1, true),
cluster,
},
wantErr: "",
wantNewLicense: false,
wantRequeue: false,
wantRequeueAfter: false,
},
}
}
for _, tt := range tests {

t.Run(tt.name, func(t *testing.T) {
client := k8s.NewFakeClient(tt.k8sResources...)
r := &ReconcileLicenses{
Client: client,
checker: commonlicense.MockChecker{},
}
nsn := k8s.ExtractNamespacedName(tt.cluster)
res, err := r.reconcileInternal(reconcile.Request{NamespacedName: nsn}).Aggregate()
if tt.wantErr != "" {
require.EqualError(t, err, tt.wantErr)
return
}
require.NoError(t, err)
if tt.wantRequeue {
require.True(t, res.Requeue)
require.Zero(t, res.RequeueAfter)
}
if tt.wantRequeueAfter {
require.False(t, res.Requeue)
require.NotZero(t, res.RequeueAfter)
}
// verify that a cluster license was created
// following the es naming convention
licenseNs := ns
licenseNs.Name = esv1.LicenseSecretName(licenseNs.Name)
var license corev1.Secret
err = client.Get(context.Background(), licenseNs, &license)
if !tt.wantNewLicense {
require.True(t, apierrors.IsNotFound(err))
} else {
require.NoError(t, err)
require.NotEmpty(t, license.Data)
}
}
}
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package license

import (
  "testing"
  "github.com/elastic/cloud-on-k8s/pkg/controller/common"
  corev1 "k8s.io/api/core/v1"
v1 "k8s.io/apimachinery/pkg/apis/meta/v1"
)

func Test_isLicenseType(t *testing.T) {
type args struct {
  secret corev1.Secret
}
tests := []struct {
  name     string
  args     args
  want     bool
  wantTrial bool
}{
  name: "any secret: no license",
  args: args{

secret: corev1.Secret{ },
},
want: false,
wantTrial: false,
},
{
name: "if common type is set it needs to consistent",
args: args{
  secret: corev1.Secret{
    ObjectMeta: v1.ObjectMeta{
      Labels: map[string]string{
        common.TypeLabelName: "foo",
        LicenseLabelType: string(LicenseTypeEnterpriseTrial),
      },
    },
    },
    },
    },
    },
    want: false,
    wantTrial: false,
  },
{
name: "label based: trial",
args: args{
  secret: corev1.Secret{
    ObjectMeta: v1.ObjectMeta{
      Labels: map[string]string{
        common.TypeLabelName: Type,
        LicenseLabelType: string(LicenseTypeEnterpriseTrial),
      },
    },
    },
    },
    },
    want: false,
    wantTrial: true,
  },
{
name: "label based: enterprise",
args: args{
  secret: corev1.Secret{
    ObjectMeta: v1.ObjectMeta{
      Labels: map[string]string{
        common.TypeLabelName: Type,
        LicenseLabelType: string(LicenseTypeEnterprise),
      },
    },
    },
    },
    want: true,
wantTrial: false,
},
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        if got := isLicenseType(tt.args.secret, LicenseTypeEnterprise); got != tt.want {
            t.Errorf("isLicenseType() = %v, want %v", got, tt.want)
        }
        if got := isLicenseType(tt.args.secret, LicenseTypeEnterpriseTrial); got != tt.wantTrial {
            t.Errorf("isLicenseType() = %v, wantTrial %v", got, tt.wantTrial)
        }
    })
})
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package fixtures

const {
    LicenseUpdateResponseSample = ```
        "acknowledged":true,"license_status":"valid"
    ```
    LicenseFailedUpdateResponseSample = ```
        "acknowledged":true,"license_status":"invalid"
    ```
    LicenseGetSample = ```
        "license": {
            "status": "active",
            "uid": "893361de-9749-4997-93cb-802e3d7fa4xx",
            "type": "platinum",
            "issue_date": "2019-01-22T00:00:00.000Z",
            "issue_date_in_millis": 1548115200000,
            "expiry_date": "2019-06-22T23:59:59.999Z",
            "expiry_date_in_millis": 1561247999999,
            "max_nodes": 100,
            "issued_to": "unit-tests",
            "issuer": "issuer",
            "start_date_in_millis": 1548115200000
        }
    ```
    LicenseSample = ```
        "status": "active",
        "uid": "893361de-9749-4997-93cb-802e3d7fa4xx",
        "type": "platinum",
        "issue_date": "2019-01-22T00:00:00.000Z",
        "issue_date_in_millis": 1548115200000,
        "expiry_date": "2019-06-22T23:59:59.999Z",
        "expiry_date_in_millis": 1561247999999,
        "max_nodes": 100,
        "issued_to": "unit-tests",
        "issuer": "issuer",
        "start_date_in_millis": 1548115200000
    ```
package license

import {
    "testing"

commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
"github.com/stretchr/testify/assert"
)

func TestToMap(t *testing.T) {
    t.Run("empty_object", func(t *testing.T) {
        i := LicensingInfo{}
        have := i.toMap()
        want := map[string]string{
            "timestamp":                 "",
            "eck_license_level":         "",
            "total_managed_memory":      "0.00GB",
            "enterprise_resource_units": "0",
        }
        assert.Equal(t, want, have)
    })

    t.Run("complete_object", func(t *testing.T) {
        i := LicensingInfo{
            EckLicenseLevel:            "enterprise",
            TotalManagedMemory:         72.54578,
            EnterpriseResourceUnits:    5,
            MaxEnterpriseResourceUnits: 10,
        }
        have := i.toMap()
        want := map[string]string{
            "timestamp":                     "2020-05-28T11:15:31Z",
            "eck_license_level":             "enterprise",
            "total_managed_memory":          "72.55GB",
            "enterprise_resource_units":     "5",
            "max_enterprise_resource_units": "10",
        }
        assert.Equal(t, want, have)
    })
}
func TestMaxEnterpriseResourceUnits(t *testing.T) {
    r := LicensingResolver{

    maxERUs := r.getMaxEnterpriseResourceUnits(nil)
    assert.EqualValues(t, 0, maxERUs)

    maxERUs = r.getMaxEnterpriseResourceUnits(&commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            MaxResourceUnits: 42,
        },
    })
    assert.EqualValues(t, 42, maxERUs)

    maxERUs = r.getMaxEnterpriseResourceUnits(&commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            MaxInstances: 10,
        },
    })
    assert.EqualValues(t, 5, maxERUs)
}

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package license

import (
    "time"
)

ulog "github.com/elastic/cloud-on-k8s/pkg/utils/log"
"sigs.k8s.io/controller-runtime/pkg/client"
)

// ResourceReporterFrequency defines the reporting frequency of the resource reporter
const ResourceReporterFrequency = 2 * time.Minute

var log = ulog.LogWithName("resource")

// ResourceReporter aggregates resources of all Elastic components managed by the operator
// and reports them in a config map in the form of licensing information
type ResourceReporter struct {
    aggregator        Aggregator
    licensingResolver LicensingResolver
}

// NewResourceReporter returns a new ResourceReporter
func NewResourceReporter(c client.Client, operatorNs string) ResourceReporter {
    return ResourceReporter{
        aggregator: Aggregator{
            client: c,
        },
        licensingResolver: LicensingResolver{
            client: c,
            operatorNs: operatorNs,
        },
    }
}

// Start starts to report the licensing information repeatedly at regular intervals
func (r ResourceReporter) Start(refreshPeriod time.Duration) {
    // report once as soon as possible to not wait the first tick
    err := r.Report()
    if err != nil {
        log.Error(err, "Failed to report licensing information")
    }

ticker := time.NewTicker(refreshPeriod)
for range ticker.C {
    err := r.Report()
    if err != nil {
        log.Error(err, "Failed to report licensing information")
    }
}
// Report licensing information by publishing metrics and updating the config map.
func (r ResourceReporter) Report() error {
    licensingInfo, err := r.Get()
    if err != nil {
        return err
    }

    licensingInfo.ReportAsMetrics()
    return r.licensingResolver.Save(licensingInfo)
}

// Get aggregates managed resources and returns the licensing information
func (r ResourceReporter) Get() (LicensingInfo, error) {
    totalMemory, err := r.aggregator.AggregateMemory()
    if err != nil {
        return LicensingInfo{}, err
    }

    return r.licensingResolver.ToInfo(totalMemory)
}

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// +build integration

package license

import {
    "context"
    "encoding/json"
    "fmt"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "github.com/pkg/errors"
    "github.com/stretchar/testify/assert"
    "github.com/stretchar/testify/require"
    corev1 "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/api/meta"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    v1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/types"
func TestMain(m *testing.M) {
    test.RunWithK8s(m)
}

func TestReconcile(t *testing.T) {
    c, stop := test.StartManager(t, func(mgr manager.Manager, p operator.Parameters) error {
        r := &ReconcileLicenses{
            Client: mgr.GetClient(),
            checker: license.MockChecker{},
        }
        c, err := common.NewController(mgr, name, r, p)
        if err != nil {
            return err
        }
        return addWatches(c, r.Client)
    }, p)
    defer stop()

    thirtyDays := 30 * 24 * time.Hour
    now := time.Now()
    startDate := now.Add(-thirtyDays)
    expiryDate := now.Add(thirtyDays)

    enterpriseLicense := license.EnterpriseLicense{
        License: license.LicenseSpec{
            UID: "test",
            ExpiryDateInMillis: chrono.ToMillis(expiryDate),
            Type: "enterprise",
            ClusterLicenses: []license.ElasticsearchLicense{
                license.ElasticsearchLicense{
                    License: esclient.License{
                        ExpiryDateInMillis: chrono.ToMillis(expiryDate),
                        StartDateInMillis: chrono.ToMillis(startDate),
                        Type: "enterprise",
                        Signature: "blah",
                    },
                },
            },
require.NoError(t, test.EnsureNamespace(c, "elastic-system"))

// Create the EnterpriseLicense object
require.NoError(t, CreateEnterpriseLicense(c,
  types.NamespacedName{Name: "foo", Namespace: "elastic-system"},
  enterpriseLicense,
))

// give the client some time to sync up
test.RetryUntilSuccess(t, func() error {
  var secs corev1.SecretList
  err := c.List(context.Background(), &secs)
  if err != nil {
    return err
  }
  if len(secs.Items) == 0 {
    return errors.New("no secrets")
  }
  return nil
})

cluster := &esv1.Elasticsearch{
  ObjectMeta: metav1.ObjectMeta{
    Name:    "foo",
    Namespace: "default",
  },
  Spec: esv1.ElasticsearchSpec{
    Version: "7.0.0",
    NodeSets: []esv1.NodeSet{
      {Name: "all", Count: 3,}
    },
  },
}
require.NoError(t, c.Create(context.Background(), cluster))

// test license assignment and ownership being triggered on cluster create
test.RetryUntilSuccess(t, func() error {
  var clusterLicense corev1.Secret
  if err := c.Get(context.Background(), types.NamespacedName{Name: "default", Name: esv1.LicenseSecretName("foo")}, &clusterLicense); err != nil {

```
func validateOwnerRef(obj runtime.Object, cluster metav1.ObjectMeta) error {
    metaObj, err := meta.Accessor(obj)
    if err != nil {
        return err
    }
    owners := metaObj.GetOwnerReferences()
    if len(owners) != 1 {
        return fmt.Errorf("expected exactly 1 owner, got %d", len(owners))
    }

    ownerName := owners[0].Name
    ownerKind := owners[0].Kind
    expectedKind := "Elasticsearch"
    if ownerName != cluster.Name || ownerKind != expectedKind {
        return fmt.Errorf("expected owner %s (%s), got %s (%s)", cluster.Name, expectedKind, ownerName, ownerKind)
    }
    return nil
}

// purpose of this test is mostly to understand and document the delaying queue behaviour
// can be removed or skipped when it causes trouble in CI because these tests are non-deterministic
func TestDelayingQueueInvariants(t *testing.T) {
    item := types.NamespacedName{Name: "foo", Namespace: "bar"}
    tests := []struct {
        name                 string
        adds                 func(workqueue.DelayingInterface)
        expectedObservations int
        timeout              time.Duration
    }{
        name: "single add",
        adds: func(q workqueue.DelayingInterface) {
            q.Add(item)
        },
        expectedObservations: 1,
        timeout: 10 * time.Millisecond,
    },
    name: "deduplication",
    adds: func(q workqueue.DelayingInterface) {
        q.Add(item)
    },
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    q := workqueue.NewDelayingQueue()
    tt.adds(q)
    results := make(chan int)
    var seen int
    go func() {
      for {
        item, _ := q.Get()
        results <- 1
        q.Done(item)
      }
    }()
    collect := func() {
      for {
        // Code continues here...
      }
    }
    // Test code...
  })
}
select {
case r := <-results:
  seen += r
  case <-time.After(tt.timeout):
    return
}
}
}
}
collect()
assert.Equal(t, tt.expectedObservations, seen)
}
}
}

// CreateEnterpriseLicense creates an Enterprise license wrapped in a secret.
func CreateEnterpriseLicense(c k8s.Client, key types.NamespacedName, l license.EnterpriseLicense) error {
  bytes, err := json.Marshal(l)
  if err != nil {
    return errors.Wrap(err, "failed to marshal license")
  }
  return c.Create(context.Background(), &corev1.Secret{
    ObjectMeta: v1.ObjectMeta{
      Namespace: key.Namespace,
      Name:      key.Name,
      Labels:    license.LabelsForOperatorScope(l.License.Type),
    },
    Data: map[string][]byte{
      "license": bytes,
    },
  })
}

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// +build release
//go:generate go run ../../../../cmd/license-initializer/main.go --out zz_generated.pubkey.go

package license
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package license

import (  "reflect"
func Test_listAffectedLicenses(t *testing.T) {
    trueVal := true

    type args struct {
        initialObjects []runtime.Object
    }
    tests := []struct {
        name          string
        args          args
        injectedError error
        want          []reconcile.Request
        wantErr       bool
    }{
        name: "happy path",
        args: args{
            initialObjects: []runtime.Object{
                &esv1.Elasticsearch{
                    ObjectMeta: metav1.ObjectMeta{
                        Name:      "foo-cluster",
                        Namespace: "default",
                        SelfLink:  "/apis/elasticsearch.k8s.elastic.co/",
                    },
                    ObjectMeta: metav1.ObjectMeta{
                        Name:      "bar-cluster",
                        Namespace: "default",
                        SelfLink:  "/apis/elasticsearch.k8s.elastic.co/",
                    },
                },
            }
        },
        want: []reconcile.Request{
            {NamespacedName: types.NamespacedName{}}
        }
    }
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        client := k8s.NewFakeClient(tt.args.initialObjects...)
        if tt.injectedError != nil {
            client = k8s.NewFailingClient(tt.injectedError)
        }
        got, err := reconcileRequestsForAllClusters(client)
        if (err != nil) != tt.wantErr {
            t.Errorf("reconcileRequestsForAllClusters() error = %v, wantErr %v", err, tt.wantErr)
            return
        }
        if !reflect.DeepEqual(got, tt.want) {
            t.Errorf("reconcileRequestsForAllClusters() = %v, want %v", got, tt.want)
        }
    })
}

Licence management scripts
==========================

This directory contains the scripts to generate licence notice and dependency information documentation.

- `generate-notice.sh`: Invoked by `make generate-notice-file` to automatically generate `NOTICE.txt` and `docs/dependencies.asciidoc`.
- `generate-image-deps.sh`: Manually invoked script to update the container image dependency information in `docs/container-image-dependencies.csv`.
generate-notice.sh

This script invokes `go-licence-detector` application which parses the output of `go list -m -json all` to produce the notice and dependency list. See the documentation at https://github.com/elastic/go-licence-detector for usage information.

### Adding Overrides

In some cases, the licence-detector will not be able to detect the licence type or infer the correct URL for a dependency. When there are issues with licences (no licence file or unknown licence type), the application will fail with an error message instructing the user to add an override to continue. The format of the overrides file is documented in the README file of the tool.

Current overrides file can be found in the `overrides` directory. Follow the existing directory layout (`licences/<domain>/<pkg>/LICENCE`) when adding new licence text overrides.

### Allowing licence types

Current list of allowed licence types can be found in the `rules.json` file. Refer to the documentation in the tool repo for more information about adding new licence types to the allowlist.

generate-image-deps.sh

This script generates licence information for the contents of the ECK container base image. As the container base image is rarely ever changed and the tool used ([Tern](https://github.com/vmware/tern)) is slow to run, this script is not invoked automatically by the build process.

To generate the dependency list (`docs/container-image-dependencies.csv`) for a particular image tag, invoke the script as follows:

```
```shell
IMAGE_TAG=1.0.1 ./generate-image-deps.sh
```

Note that Tern is Linux only (there are Vagrant instructions for OSX in the Tern repo) and requires sudo access to mount the procfs file system and inspect the container layers. The script will prompt for the sudo password when needed.

This script requires Docker, Python, and jq to be installed on the machine.

```
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```

package license
import (
    "crypto/x509"
    "testing"
    "time"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/require"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/types"
)

const testNS = "test-system"

func TestChecker_EnterpriseFeaturesEnabled(t *testing.T) {
    privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
    require.NoError(t, err)

    validLicenseFixture := licenseFixtureV3
    validLicenseFixture.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(1 * time.Hour))

    signatureBytes, err := NewSigner(privKey).Sign(validLicenseFixture)
    require.NoError(t, err)

    trialState, err := NewTrialState()
    require.NoError(t, err)
    validTrialLicenseFixture := emptyTrialLicenseFixture
    require.NoError(t, trialState.InitTrialLicense(&validTrialLicenseFixture))
    validLegacyTrialFixture := EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeLegacyTrial,
            expiresIn: 0,
        },
    }
    require.NoError(t, trialState.InitTrialLicense(&validLegacyTrialFixture))

    expiredTrialLicense := validTrialLicenseFixture
    expiredTrialLicense.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(-1 * time.Hour))
    expiredTrialSignatureBytes, err := NewSigner(trialState.privateKey).Sign(expiredTrialLicense)
    require.NoError(t, err)

    statusSecret, err := ExpectedTrialStatus(testNS, types.NamespacedName{ }, trialState)
    require.NoError(t, err)

    type fields struct {
        initialObjects []runtime.Object
        publicKey     []byte
    }
tests := []struct {
    name    string
    fields  fields
    want    bool
    wantErr bool
} {
    {
        name: "valid license: OK",
        fields: fields{
            initialObjects: asRuntimeObjects(validLicenseFixture, signatureBytes),
            publicKey: publicKeyBytesFixture(t),
        },
        want: true,
    },
    {
        name: "valid trial: OK",
        fields: fields{
            initialObjects: []runtime.Object{asRuntimeObject(validTrialLicenseFixture), &statusSecret},
        },
        want: true,
        wantErr: false,
    },
    {
        name: "valid legacy trial: OK",
        fields: fields{
            initialObjects: []runtime.Object{asRuntimeObject(validTrialLicenseFixture), &statusSecret},
        },
        want: true,
        wantErr: false,
    },
    {
        name: "invalid trial: FAIL",
        fields: fields{
            initialObjects: []runtime.Object{asRuntimeObject(emptyTrialLicenseFixture), &statusSecret},
        },
        want: false,
        wantErr: false,
    },
    {
        name: "expired trial: FAIL",
        fields: fields{
            initialObjects: append(asRuntimeObjects(expiredTrialLicense, expiredTrialSignatureBytes), &statusSecret),
        },
        want: false,
        wantErr: false,
    },
}
name: "invalid signature: FAIL",
fields: fields{
  initialObjects: asRuntimeObjects(validLicenseFixture, [][]byte{}),
  publicKey: publicKeyBytesFixture(t),
},
want: false,
wantErr: false,
},
{name: "no public key: FAIL",
fields: fields{
  initialObjects: asRuntimeObjects(validLicenseFixture, signatureBytes),
},
want: false,
wantErr: false,
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    lc := &checker{
      k8sClient:     k8s.NewFakeClient(tt.fields.initialObjects...),
      operatorNamespace: testNS,
      publicKey:      tt.fields.publicKey,
    }
    got, err := lc.EnterpriseFeaturesEnabled()
    if (err != nil) != tt.wantErr {
      t.Errorf("Checker.EnterpriseFeaturesEnabled() err = %v, wantErr %v", err, tt.wantErr)
    }
    if got != tt.want {
      t.Errorf("Checker.EnterpriseFeaturesEnabled() = %v, want %v", got, tt.want)
    }
  })
}

func Test_CurrentEnterpriseLicense(t *testing.T) {
  privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
  require.NoError(t, err)
  validLicenseFixture := licenseFixtureV3
  validLicenseFixture.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(1 * time.Hour))
  signatureBytes, err := NewSigner(privKey).Sign(validLicenseFixture)
  require.NoError(t, err)
  validLicense := asRuntimeObjects(validLicenseFixture, signatureBytes)
  trialState, err := NewTrialState()
  require.NoError(t, err)
  validTrialLicenseFixture := emptyTrialLicenseFixture

require.NoError(t, trialState.InitTrialLicense(&validTrialLicenseFixture))
validTrialLicense := asRuntimeObject(validTrialLicenseFixture)

statusSecret, err := ExpectedTrialStatus(testNS, types.NamespacedName{}, trialState)
require.NoError(t, err)

type fields struct {
    initialObjects    []runtime.Object
    operatorNamespace string
    publicKey         []byte
}

tests := []struct {
    name     string
    fields   fields
    want     bool
    wantErr  bool
    wantType OperatorLicenseType
}{{
    name: "get valid enterprise license: OK",
    fields: fields{
        initialObjects: validLicense,
        operatorNamespace: "test-system",
        publicKey: publicKeyBytesFixture(t),
    },
    want: true,
    wantType: LicenseTypeEnterprise,
    wantErr: false,
},
{{
    name: "get valid trial enterprise license: OK",
    fields: fields{
        initialObjects: []runtime.Object{validTrialLicense, &statusSecret},
        operatorNamespace: "test-system",
        publicKey: publicKeyBytesFixture(t),
    },
    want: true,
    wantType: LicenseTypeEnterpriseTrial,
    wantErr: false,
},
{{
    name: "get valid enterprise license among two licenses: OK",
    fields: fields{
        initialObjects: append(validLicense, validTrialLicense),
        operatorNamespace: "test-system",
        publicKey: publicKeyBytesFixture(t),
    },
    want: true,
    wantType: LicenseTypeEnterprise,
    wantErr: false,
},
}}
want: true,
wantType: LicenseTypeEnterprise,
wantErr: false,

{
name: "no license: OK",
fields: fields{
initialObjects: []runtime.Object{},
operatorNamespace: "test-system",
},
want: false,
wantErr: false,
},

{
name: "invalid public key: FAIL",
fields: fields{
initialObjects: validLicense,
operatorNamespace: "test-system",
publicKey: []byte("not a public key"),
},
want: false,
wantErr: true,
},

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        lc := &checker{
            k8sClient: k8s.NewFakeClient(tt.fields.initialObjects...),
            operatorNamespace: tt.fields.operatorNamespace,
            publicKey: tt.fields.publicKey,
        }
        got, err := lc.CurrentEnterpriseLicense()
        if (err != nil) != tt.wantErr {
            t.Errorf("Checker.CurrentEnterpriseLicense() err = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.want != (got != nil) {
            t.Errorf("Checker.CurrentEnterpriseLicense() = %v, want %v", got, tt.want)
        }
    })
}

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package license

import (
// EnterpriseLicensesOrErrors lists all Enterprise licenses and all errors encountered during retrieval.
func EnterpriseLicensesOrErrors(c k8s.Client) ([]EnterpriseLicense, []error) {
    licenseList := corev1.SecretList{}
    matchingLabels := NewLicenseByScopeSelector(LicenseScopeOperator)
    err := c.List(context.Background(), &licenseList, matchingLabels)
    if err != nil {
        return nil, []error{err}
    }
    licenses := []EnterpriseLicense
    errors := []error
    for _, license := range licenseList.Items {
        ls := license
        parsed, err := ParseEnterpriseLicense(ls.Data)
        if err != nil {
            errors = append(errors, pkgerrors.Wrapf(err, "unparseable license in %v", k8s.ExtractNamespacedName(&ls)))
        } else {
            licenses = append(licenses, parsed)
        }
    }
    return licenses, errors
}

// EnterpriseLicenses lists all Enterprise licenses or an aggregate error
func EnterpriseLicenses(c k8s.Client) ([]EnterpriseLicense, error) {
    licenses, errors := EnterpriseLicensesOrErrors(c)
    return licenses, utilerrors.NewAggregate(errors)
}

// TrialLicense returns the trial license, its containing secret or an error
func TrialLicense(c k8s.Client, nsn types.NamespacedName) (corev1.Secret, EnterpriseLicense, error) {
    var secret corev1.Secret
    err := c.Get(context.Background(), nsn, &secret)
    if err != nil {
        return corev1.Secret{}, EnterpriseLicense{}, err
    }
    var license corev1.Secret
    err := c.Get(context.Background(), nsn.Name, &license)
    if err != nil {
        return corev1.Secret{}, EnterpriseLicense{}, err
    }
    return license, EnterpriseLicense{}, nil
}
if len(secret.Data) == 0 {
    // new trial license
    return secret, EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterpriseTrial,
        },
    }, nil
}

license, err := ParseEnterpriseLicense(secret.Data)
if err != nil {
    return secret, EnterpriseLicense{}, err
}
if !license.IsTrial() {
    return secret, EnterpriseLicense{}, pkgerrors.Errorf("%v is not a trial license", nsn)
}
return secret, license, nil

// CreateTrialLicense creates an empty secret with the correct meta data to start an enterprise trial
func CreateTrialLicense(c k8s.Client, nsn types.NamespacedName) error {
    return c.Create(context.Background(), &corev1.Secret{
        ObjectMeta: v1.ObjectMeta{
            Name:      nsn.Name,
            Namespace: nsn.Namespace,
            Labels: map[string]string{
                common.TypeLabelName: Type,
                LicenseLabelType:     string(LicenseTypeEnterpriseTrial),
            },
            Annotations: map[string]string{
                EULAAnnotation: EULAAcceptedValue,
            },
        },
    })
}

// UpdateEnterpriseLicense updates an Enterprise license wrapped in a secret.
func UpdateEnterpriseLicense(c k8s.Client, secret corev1.Secret, l EnterpriseLicense) error {
    bytes, err := json.Marshal(l)
    if err != nil {
        return pkgerrors.Wrap(err, "failed to marshal license")
    }
    secret.Data = map[string][]byte{
        FileName: bytes,
    }
    secret.Labels = maps.Merge(secret.Labels, LabelsForOperatorScope(l.License.Type))
    return c.Update(context.Background(), &secret)
}
package license

import (
    "sort"
    "time"
    
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
)

type licenseWithTimeLeft struct {
    license   client.License
    parentUID string
    remaining time.Duration
}

// BestMatch tries to find the best matching license given a list of enterprise licenses based on the
// the minimal Elasticsearch version in the cluster, the desired license type and the remaining validity
// period of the license.
// Returns the license, parent license UID, a bool indicating a match was found and an optional error.
func BestMatch(
    minVersion *version.Version,
    licenses []EnterpriseLicense,
    filter func(EnterpriseLicense) (bool, error),
) (client.License, string, bool) {
    return bestMatchAt(time.Now(), minVersion, licenses, filter)
}

func bestMatchAt(
    now time.Time,
    minVersion *version.Version,
    licenses []EnterpriseLicense,
    filter func(EnterpriseLicense) (bool, error),
) (client.License, string, bool) {
    var license client.License
    var parentMeta string
    if len(licenses) == 0 {
        // no license at all
        return license, parentMeta, false
    }
    valid := filterValid(now, minVersion, licenses, filter)
    if len(valid) == 0 {
        log.Info("No matching license found", "num_licenses", len(licenses))
        return license, parentMeta, false
    }
    return license, parentMeta, true
func sort.Slice(valid, func(i, j int) bool {
    t1, t2 := client.ElasticsearchLicenseTypeOrder[client.ElasticsearchLicenseType(valid[i].license.Type)],
    client.ElasticsearchLicenseTypeOrder[client.ElasticsearchLicenseType(valid[j].license.Type)]
    if t1 != t2 { // sort by type
        return t1 < t2
    }
    // and by remaining time
    return valid[i].remaining < valid[j].remaining
})
best := valid[len(valid)-1]
return best.license, best.parentUID, true
}

func filterValid(now time.Time, minVersion *version.Version, licenses []EnterpriseLicense, filter func(EnterpriseLicense) (bool, error)) [][]licenseWithTimeLeft {
    filtered := make([][]licenseWithTimeLeft, 0)
    for _, el := range licenses {
        if !el.IsValid(now) {
            log.V(1).Info("Discarding invalid Enterprise license (validity period)", "eck_license", el.License.UID)
            continue
        }
        ok, err := filter(el)
        if err != nil {
            log.Error(err, "while checking license validity")
            continue
        }
        if !ok {
            log.V(1).Info("Discarding invalid Enterprise license (signature)", "eck_license", el.License.UID)
            continue
        }
        // Shortcut if it's an ECK managed trial license
        if el.IsECKManagedTrial() {
            filtered = append(filtered, licenseWithTimeLeft{
                // For a trial, only the type is used, the license will be generated by ES
                license: client.License{
                    Type: string(client.ElasticsearchLicenseTypeTrial),
                },
                parentUID: el.License.UID,
                remaining: el.ExpiryTime().Sub(now),
            })
            continue
        }
        for _, l := range el.License.ClusterLicenses {
            if l.License.IsValid(now) && l.License.IsSupported(minVersion) {
                filtered = append(filtered, licenseWithTimeLeft{
                    license: client.License{
                        Type: string(client.ElasticsearchLicenseTypeTrial),
                    },
                    parentUID: el.License.UID,
                    remaining: el.ExpiryTime().Sub(now),
                })
                continue
            }
        }
    }
    return filtered
}
filtered = append(filtered, licenseWithTimeLeft{
    license:  l.License,
    parentUID: el.License.UID,
    remaining: l.License.ExpiryTime().Sub(now),
})
}
}
return filtered
}

# 10. License checks

* Status: proposed
* Date: 2019-04-07

Technical Story: tbd

## Context and Problem Statement

We want to control behaviour in the operators based on the current Enterprise license applied to the operator. An example for conditional behaviour are any commercial features available to licensed operators only.

## Decision Drivers

* we currently support multiple deployment options for the operator: single namespace and multi-namespace.
* for the activation of commercial features we need a minimal amount of protection against tampering.
* we see admission controllers as optional means of verification and don't want to rely on them for functionality that does not exist in other places as well.
* we regard licenses as somewhat sensitive data that should not be shared freely across all namespaces and controllers.

## Considered Options

1. Configure license statically at operator startup (e.g. via shared secret bound in all instances) or via simple flag for trial mode
2. Configure license dynamically and use admission control to label resources (licensed-until timestamp)
3. Create a shared secret ("ControllerLicense") in every relevant namespace with tamper proof evidence of the current Enterprise license

## Decision Outcome

Option 3.

### Additional design details
Create a new CRD e.g. called `ControllerLicense` that will be created by the (global) license controller. It CAN use the same signer we use for the Enterprise licenses but a different installation specific private/public key pair.

The public key CAN be shared with the namespace operator at installation time. The individual controllers that are interested in license checks will then verify any `ControllerLicense` appearing in their namespace using that key and MUST toggle commercial features only if a valid license is present.

The license controller MUST create controller licenses only when either a valid Enterprise license or a valid Enterprise trial license is present in the system. It CAN issue controller licenses with shorter lifetimes than the Enterprise license and auto-extend them as needed to limit the impact of accidental license leaks. But license leaks are currently understood to be much less a concern than cluster licenses leaks as controller licenses have no validity outside of the operator installation that has created them.

```plaintext
+--------------------------------+   +----------------------------------+
|                                |   |                                  |
| elastic-system                 |   |       foo-system                 |
|                                |   |                                  |
|                                |   |                                  |
|                                |   |                                  |
|             +------------+     |   |        +-------------+           |
|             |            |     |   |        |             |           |
|             |  license   |     |   |        |    foo      |           |
|             |  ctrl      |     |   |        |    ctrl     |           |
|             |            |     |   |        |             |           |
|             +-+-----+--+-+     |   |        ++-----------++           |
|               ^     |  |       |   |         ^           ^            |
|               |     |  |       |   |         |           |            |
|               |     |  |       |   |         |           |            |
|   +-----------+-+   |  |       |   |   +-----+------+  +-+---------+  |
|   |             |   |  |       |   |   |            |  |           |  |
|   |  Enterprise |   |  |       |   |   | Controller |  |  PubKey   |  |
|   |  License    |   |  +-------------->+ License    |  |           |  |
|   |             |   |  creates |   |   |            |  |           |  |
|   +-------------+   |          |   |   +------------+  +------+----+  |
|                     |          |   |                          ^       |
|                     |          |   |                          |       |
|                     |          |   |   creates                |       |
|                     +-----------------------------------------+       |
|                                |   |                                  |
+--------------------------------+   +----------------------------------+
```
Due to restrictions in controller runtime the license + secret would need to be deployed into the managed namespace not into the control plane namespace. Unless of course we run everything in one namespace anyway or we implement a custom client that has access to the control plane namespace of the namespace operator (the latter is the underlying assumption for the graph above).

### Positive Consequences

* Does not give every namespace operator access to the full Enterprise license.
* Allows to issue short term controller licenses to limit impact of exposure.
* Does allow relative protection against tampering.

### Negative Consequences

* Effort and complexity of the implementation.
* The key/pair to verify the controller license can be manipulated. The global license controller can to some extend counteract that by deleting/recreating the correct license and public key resources.

## Pros and Cons of the other Options

### Statically configured license

* Good, because it simplifies the decision for the trial vs. basic decision on cluster creation (but: we might not need that at all if we start with basic by default).
* Good, because it is independent of the deployment scenario chosen for the operator.
* Bad, because it does not solve the burden of proof for commercial feature enablement.
  We would still need a copy of the actual license in all namespaces that have controllers with commercial features (currently only the global one).
* Bad, because it would require an operator restart to update license information.

### Dynamically configured license and admission controller

* Good, because it solves the problem of propagating license status from a global operator/namespace to the individual namespace operators.
* Bad, because it is fairly complex.
* Bad, because it makes the admission controller a central and non-optional component for the operator.
* Bad, because it does not offer a convincing solution to update expiry information or to the problem that we might want to re-label resources if new licenses become available.
### Links

* builds on top of [ADR-0004](0004-licensing.md)
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```go
package license

import {
    "context"
    "net/http"
    "strings"
    "testing"

    "github.com/pkg/errors"
    "github.com/stretcher/testify/require"
    corev1 "k8s.io/api/core/v1"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/types"
    "sigs.k8s.io/controller-runtime/pkg/client"

esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
"github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
"github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
fixtures "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client/test_fixtures"
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
}

func Test_updateLicense(t *testing.T) {
    enterpriseLicense := esclient.License{
        UID: "enterprise-license",
        Type: string(esclient.ElasticsearchLicenseTypeEnterprise),
    }
    type args struct {
    current esclient.License
    desired esclient.License
    }
    tests := []struct {
        name   string
        reqFn  esclient.RoundTripFunc
        wantErr bool
    }{
    name: "error: HTTP error",
    wantErr: true,
    }
```
args: args{
    desired: enterpriseLicense,
},
    return esclient.NewMockResponse(400, req, `""`)
},
}
{
    name: "error: ES error",
    wantErr: true,
    args: args{
        desired: enterpriseLicense,
    },
        return esclient.NewMockResponse(200, req, fixtures.LicenseFailedUpdateResponseSample, ````
    ),
}
}
{
    name: "happy path",
    args: args{
        desired: enterpriseLicense,
    },
        return esclient.NewMockResponse(200, req, fixtures.LicenseUpdateResponseSample, ````
    ),
}
}
{
    name: "start a trial",
    args: args{
        desired: esclient.License{
            Type: string(esclient.ElasticsearchLicenseTypeTrial),
        },
    },
        if strings.Contains(req.URL.Path, "start_trial") {
            return esclient.NewMockResponse(200, req, `"{"acknowledged": true, "trial_started": true}"`) // panic("should only call start_trial")
        }
    wantErr: false,
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        c := esclient.NewMockClient(version.MustParse("6.8.0"), tt.reqFn)
        if err := updateLicense(context.Background(), types.NamespacedName{}, c, tt.args.current, tt.args.desired); (err != nil) != tt.wantErr {
            t.Errorf("updateLicense() error = %v, wantErr %v", err, tt.wantErr)
        }
    })
})
}

func Test_applyLinkedLicense(t *testing.T) {
    clusterName := types.NamespacedName{
        Name: "test",
        Namespace: "default",
    }
    tests := []struct {
        name          string
        initialObjs   []runtime.Object
        currentLicense esclient.License
        errors        map[client.ObjectKey]error
        wantErr       bool
        clientAssertions func(updater fakeLicenseUpdater)
    }{
        {
            name: "happy path",
            wantErr: false,
            initialObjs: []runtime.Object{
                &corev1.Secret{
                    ObjectMeta: metav1.ObjectMeta{
                        Name: esv1.LicenseSecretName("test"),
                        Namespace: "default",
                    },
                },
            },
        }
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            c := esclient.NewMockClient(version.MustParse("6.8.0"), tt.reqFn)
            if err := updateLicense(context.Background(), types.NamespacedName{}, c, tt.current, tt.desired); (err != nil) != tt.wantErr {
                t.Errorf("updateLicense() error = %v, wantErr %v", err, tt.wantErr)
            }
        })
    }
}
Data: map[string][]byte{
  "anything": []byte(fixture.LicenseSample),
},

clientAssertions: func(updater fakeLicenseUpdater) {
  require.True(t, updater.updateLicenseCalled, "should update license")
},

name:   "no error: no license found but stack has an enterprise license",
wantErr: false,
currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeEnterprise)},
clientAssertions: func(updater fakeLicenseUpdater) {
  require.True(t, updater.startBasicCalled, "should call start_basic to remove the license")
},

name:   "no error: no license found, stack already in basic license",
wantErr: false,
currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeBasic)},
clientAssertions: func(updater fakeLicenseUpdater) {
  require.False(t, updater.startBasicCalled, "should not call start_basic if already basic")
},

name:   "no error: no license found but tolerate a cluster level trial",
wantErr: false,
currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeTrial)},
clientAssertions: func(updater fakeLicenseUpdater) {
  require.False(t, updater.startBasicCalled, "should not call start_basic")
},

name:   "error: empty license",
wantErr: true,
initialObjs: []runtime.Object{
  &corev1.Secret{
    ObjectMeta: metav1.ObjectMeta{
      Name: esv1.LicenseSecretName("test"),
      Namespace: "default",
    },
  },
},

name:   "error: invalid license json"
wantErr: true,
 initialObjs: []runtime.Object{
 &corev1.Secret{
 ObjectMeta: metav1.ObjectMeta{
 Name:      esv1.LicenseSecretName("test"),
 Namespace: "default",
 },
 Data: map[string][]byte{
 "anything2": {},
 },
 },
},
{
 name:    "error: request error",
 wantErr: true,
 errors: map[client.ObjectKey]error{
 types.NamespacedName{
 Namespace: clusterName.Namespace,
 Name:      esv1.LicenseSecretName("test"),
 }: errors.New("boom"),
 },
},
}
for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 c := &fakeClient{
 Client: k8s.NewFakeClient(tt.initialObjs...),
 errors: tt.errors,
 }
 updater := fakeLicenseUpdater{license: tt.currentLicense}
 if err := applyLinkedLicense(
 context.Background(),
 c,
 clusterName,
 &updater,
 ): (err != nil) != tt.wantErr {
 t.Errorf("applyLinkedLicense() error = %v, wantErr %v", err, tt.wantErr)
 } if tt.clientAssertions != nil {
 tt.clientAssertions(updater)
 } })
}

}

type fakeLicenseUpdater struct {
 license  esclient.License
startBasicCalled bool
updateLicenseCalled bool
}

func (f *fakeLicenseUpdater) StartTrial(ctx context.Context) (esclient.StartTrialResponse, error) {
    return esclient.StartTrialResponse{
        Acknowledged: true,
        TrialWasStarted: true,
    }, nil
}

func (f *fakeLicenseUpdater) GetLicense(ctx context.Context) (esclient.License, error) {
    return f.license, nil
}

func (f *fakeLicenseUpdater) UpdateLicense(ctx context.Context, licenses esclient.LicenseUpdateRequest) (esclient.LicenseUpdateResponse, error) {
    f.updateLicenseCalled = true
    return esclient.LicenseUpdateResponse{
        Acknowledged: true,
        LicenseStatus: "valid",
    }, nil
}

func (f *fakeLicenseUpdater) StartBasic(ctx context.Context) (esclient.StartBasicResponse, error) {
    f.startBasicCalled = true
    return esclient.StartBasicResponse{}, nil
}

var _ esclient.LicenseClient = &fakeLicenseUpdater{}

type fakeClient struct {
    k8s.Client
    errors map[client.ObjectKey]error
}

func (f *fakeClient) Get(ctx context.Context, key client.ObjectKey, obj client.Object) error {
    err := f.errors[key]
    if err != nil {
        return err
    }
    return f.Client.Get(context.Background(), key, obj)
}

var _ k8s.Client = &fakeClient{}

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```go
{
  name: "single license",
  args: args{
    raw: map[string][]byte{
      FileName: good,
    },
  },
  want: expectedLicenseSpec,
  wantErr: false,
},
{
  name: "malformed license",
  args: args{
    raw: map[string][]byte{
      FileName: bad,
    },
  },
  wantErr: true,
},
{
  name: "different key",
  args: args{
    raw: map[string][]byte{
      "_": good,
    },
  },
  want: expectedLicenseSpec,
  wantErr: false,
}
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    got, err := ParseEnterpriseLicense(tt.args.raw)
    if (err != nil) != tt.wantErr {
      t.Errorf("ParseEnterpriseLicense() error = %v, wantErr %v", err, tt.wantErr)
      return
    }
    if diff := deep.Equal(got, tt.want); diff != nil {
      t.Errorf(diff)
    }
  })
}
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package license
```
import (
    "time"
)

"github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
pkgerrors "github.com/pkg/errors"
)

// OperatorLicenseType is the type of operator level license a resource is describing.
type OperatorLicenseType string

const (  
    LicenseTypeEnterprise    OperatorLicenseType = "enterprise"
    LicenseTypeEnterpriseTrial OperatorLicenseType = "enterprise_trial"
    LicenseTypeLegacyTrial   OperatorLicenseType = "enterprise-trial"

    type ElasticsearchLicense struct {  
        License client.License `json:"license"`
    }

    type EnterpriseLicense struct {  
        License LicenseSpec `json:"license"`
    }

    type LicenseSpec struct {  
        Status             string `json:"status,omitempty"
        UID                string `json:"uid"
        Type               OperatorLicenseType `json:"type"
        IssueDate          *time.Time `json:"issue_date,omitempty"
        IssueDateInMillis  int64 `json:"issue_date_in_millis"
        ExpiryDate         *time.Time `json:"expiry_date,omitempty"
        ExpiryDateInMillis int64 `json:"expiry_date_in_millis"
        MaxInstances       int `json:"max_instances,omitempty"
        MaxResourceUnits   int `json:"max_resource_units,omitempty"
        IssuedTo           string `json:"issued_to"
        Issuer             string `json:"issuer"
        StartDateInMillis  int64 `json:"start_date_in_millis"
        Signature          string `json:"signature,omitempty"
        ClusterLicenses    []ElasticsearchLicense `json:"cluster_licenses"
        Version            int // not marshalled but part of the signature
    }

    // EnterpriseLicenseTypeOrder license types mapped to ints in increasing order of feature sets for sorting purposes.
    var EnterpriseLicenseTypeOrder = map[OperatorLicenseType]int{
        LicenseTypeLegacyTrial:  0,
        LicenseTypeEnterpriseTrial: 1,
LicenseTypeEnterprise:
}

2,

// StartTime is the date as of which this license is valid.
func (l EnterpriseLicense) StartTime() time.Time {
return time.Unix(0, l.License.StartDateInMillis*int64(time.Millisecond))
}
// ExpiryTime is the date as of which the license is no longer valid.
func (l EnterpriseLicense) ExpiryTime() time.Time {
return time.Unix(0, l.License.ExpiryDateInMillis*int64(time.Millisecond))
}
// IsValid returns true if the license is still valid at the given point in time.
func (l EnterpriseLicense) IsValid(instant time.Time) bool {
return (l.StartTime().Equal(instant) || l.StartTime().Before(instant)) &&
l.ExpiryTime().After(instant)
}
// IsTrial returns true if this is a self-generated trial license.
func (l EnterpriseLicense) IsTrial() bool {
return l.License.Type == LicenseTypeEnterpriseTrial || l.License.Type == LicenseTypeLegacyTrial
}
// IsECKManagedTrial returns true if this license has been issued by ECK or if this is an empty license that ECK can
fill in.
func (l EnterpriseLicense) IsECKManagedTrial() bool {
return l.IsTrial() && (l.License.Issuer == ECKLicenseIssuer || l.License.Issuer == "")
}
// IsMissingFields returns an error if any of the required fields are missing. Expected state on trial licenses.
func (l EnterpriseLicense) IsMissingFields() error {
var missing []string
if l.License.Issuer == "" {
missing = append(missing, "spec.issuer")
}
if l.License.IssuedTo == "" {
missing = append(missing, "spec.issued_to")
}
if l.License.ExpiryDateInMillis == 0 {
missing = append(missing, "spec.expiry_date_in_millis")
}
if l.License.StartDateInMillis == 0 {
missing = append(missing, "spec.start_date_in_millis")
}
if l.License.IssueDateInMillis == 0 {
missing = append(missing, "spec.issue_date_in_millis")
}

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if l.License.UID == "" {
    missing = append(missing, "spec.uid")
}
if len(missing) > 0 {
    return pkgerrors.Errorf("required fields are missing: %v", missing)
}
return nil
}

// LicenseStatus expresses the validity status of a license.
type LicenseStatus string

// Supported LicenseStatus values.
const (
    LicenseStatusValid   LicenseStatus = "Valid"
    LicenseStatusExpired LicenseStatus = "Expired"
    LicenseStatusInvalid LicenseStatus = "Invalid"
)

var _ Signable = &EnterpriseLicense{ }

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// +build integration

package trial

import (
    "bytes"
    "context"
    "fmt"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/operator"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/elastic/cloud-on-k8s/pkg/utils/test"
    "github.com/pkg/errors"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/types"
)

const operatorNs = "elastic-system"
var testLicenseNSN = types.NamespacedName{
    Namespace: operatorNs,
    Name:      "eck-trial-license",
}

func TestMain(m *testing.M) {
    test.RunWithK8s(m)
}

func TestReconcile(t *testing.T) {
    c, stop := test.StartManager(t, Add, operator.Parameters{OperatorNamespace: operatorNs})
defer stop()

    now := time.Now()

    require.NoError(t, test.EnsureNamespace(c, operatorNs))

    // Create trial initialisation is controlled via config
    require.NoError(t, license.CreateTrialLicense(c, testLicenseNSN))
    checker := license.NewLicenseChecker(c, operatorNs)
    // test trial initialisation on create
    validateTrialStatus(t, checker, true)
    licenses, err := license.EnterpriseLicenses(c)
    require.NoError(t, err)
    require.Equal(t, 1, len(licenses))
    trialLicense := licenses[0]
    require.True(t, trialLicense.IsTrial())
    validateTrialDuration(t, trialLicense, now, time.Minute)

    // tamper with the trial status
    var trialStatus corev1.Secret
    trialStatusKey := types.NamespacedName{
        Namespace: operatorNs,
        Name:      license.TrialStatusSecretKey,
    }
    // retry in case of edit conflict with reconciliation loop
    test.RetryUntilSuccess(t, func() error {
        require.NoError(t, c.Get(context.Background(), trialStatusKey, &trialStatus))
        trialStatus.Data[license.TrialPubkeyKey] = []byte("foobar")
        return c.Update(context.Background(), &trialStatus)
    })
    test.RetryUntilSuccess(t, func() error {
        require.NoError(t, c.Get(context.Background(), trialStatusKey, &trialStatus))
        if bytes.Equal(trialStatus.Data[license.TrialPubkeyKey], []byte("foobar")) {
            return errors.New("Manipulated secret has not been corrected")
        }
        return nil
    })
// Delete the trial license
require.NoError(t, deleteTrial(c))
// recreate it with modified validity + 1 year
require.NoError(t, license.CreateTrialLicense(c, testLicenseNSN))
// expect an invalid license
validateTrialStatus(t, checker, false)
// ClusterLicense should be GC'ed but can't be tested here
}

func validateTrialStatus(t *testing.T, checker license.Checker, expected bool) {
// test trial initialisation on create
test.RetryUntilSuccess(t, func() error {
trialEnabled, err := checker.EnterpriseFeaturesEnabled()
if err != nil {
return err
}
if trialEnabled != expected {
return fmt.Errorf("expected licensed features to be enabled [%v] but was [%v]", expected, trialEnabled)
}
return nil
})
}

func validateTrialDuration(t *testing.T, license license.EnterpriseLicense, now time.Time, precision time.Duration) {
startDelta := license.StartTime().Sub(now)
assert.True(t, startDelta <= precision, "start date should be within %v, but was %v", precision, startDelta)
endDelta := license.ExpiryTime().Sub(now.Add(30 * 24 * time.Hour))
assert.True(t, endDelta <= precision, "end date should be within %v, but was %v", precision, endDelta)
}

func deleteTrial(c k8s.Client) error {
var trialLicense corev1.Secret
if err := c.Get(context.Background(), testLicenseNSN, &trialLicense); err != nil {
return err
}
return c.Delete(context.Background(), &trialLicense)
}

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package license

import ("context"
esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"

// Reconcile reconciles the current Elasticsearch license with the desired one.
func Reconcile(
    ctx context.Context,
    c k8s.Client,
    esCluster esv1.Elasticsearch,
    clusterClient esclient.Client,
) error {
    clusterName := k8s.ExtractNamespacedName(&esCluster)
    return applyLinkedLicense(ctx, c, clusterName, clusterClient)
}

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// +build integration

package main

import {
    "bytes"
    "io/ioutil"
    "path/filepath"
    "testing"
    "github.com/stretchr/testify/require"
}

func Test_generateSrc(t *testing.T) {
    path := filepath.Join("testdata", "expected.src")
    expectedBytes, err := ioutil.ReadFile(path)
    require.NoError(t, err)
    input := filepath.Join("testdata", "test.key")
    var out bytes.Buffer
    generateSrc(input, &out)
    require.Equal(t, expectedBytes, out.Bytes())
}

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// +build !release
package license

var publicKeyBytes []byte
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// +build es e2e
package es

import (  
    "crypto/rsa"
    "crypto/x509"
    "io/ioutil"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/test/e2e/test"
    "github.com/elastic/cloud-on-k8s/test/e2e/test/elasticsearch"
    "github.com/stretchr/testify/require"
)

func TestEnterpriseLicenseSingle(t *testing.T) {  
// only execute this test if we have a test license to work with
if test.Ctx().TestLicense == "" {   
t.SkipNow()
}

licenseBytes, err := ioutil.ReadFile(test.Ctx().TestLicense)  
require.NoError(t, err)

k := test.NewK8sClientOrFatal()

// create a single node cluster
esBuilder := elasticsearch.NewBuilder("test-es-license-provisioning").WithESMasterDataNodes(1, elasticsearch.DefaultResources)
licenseTestContext := elasticsearch.NewLicenseTestContext(k, esBuilder.Elasticsearch)
licenseSecretName := "eck-e2e-test-license" // nolint
updatedLicenseSecretName := "eck-e2e-test-license2" // nolint

licenseLevelWatch := test.NewWatcher(  
"watch license level never drops to basic",
1*time.Second,
func(k *test.K8sClient, t *testing.T) {
require.NoError(t, licenseTestContext.CheckElasticsearchLicenseFn(}
client.ElasticsearchLicenseTypeGold,
client.ElasticsearchLicenseTypePlatinum,
)
},
test.NOOPCheck,
)
test.StepList{ }
WithSteps(esBuilder.InitTestSteps(k)).
// make sure no left over license is still around
WithStep(licenseTestContext.DeleteAllEnterpriseLicenseSecrets()).
WithSteps(esBuilder.CreationTestSteps(k)).
WithSteps(test.CheckTestSteps(esBuilder, k)).
WithStep(licenseTestContext.Init()).
WithSteps(test.StepList{ licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic), licenseTestContext.CreateEnterpriseLicenseSecret(licenseSecretName, licenseBytes), // enterprise license can contain all kinds of cluster licenses so we are a bit lenient here and expect either gold or platinum licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeGold, client.ElasticsearchLicenseTypePlatinum, ), // but we don't expect to go below that level until we delete the last license secret licenseLevelWatch.StartStep(k), // simulate an update by creating a second license secret licenseTestContext.CreateEnterpriseLicenseSecret(updatedLicenseSecretName, licenseBytes), // license level should stay on platinum/gold/enterprise even if we now remove the original secret licenseTestContext.DeleteEnterpriseLicenseSecret(licenseSecretName), licenseLevelWatch.StopStep(k), // and now revert back to basic licenseTestContext.DeleteEnterpriseLicenseSecret(updatedLicenseSecretName), licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic), }).
WithSteps(esBuilder.DeletionTestSteps(k)).
RunSequential(t)
}

// TestEnterpriseTrialLicense this test can be run exactly once per installation!
func TestEnterpriseTrialLicense(t *testing.T) { // only execute this test if we have a test license to work with // but do not execute if we have a private key to generate trial extensions (see TestEnterpriseTrialExtension) if test.Ctx().TestLicense == "" || test.Ctx().TestLicensePKeyPath != "" { t.SkipNow() }
}

licenseBytes, err := ioutil.ReadFile(test.Ctx().TestLicense)
require.NoError(t, err)
WithESMasterDataNodes(1, elasticsearch.DefaultResources)


trialSecretName := "eck-trial"
licenseSecretName := "eck-license"
initStepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
    }
}

stepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.Init(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
        licenseTestContext.CheckEnterpriseTrialLicenseValid(trialSecretName),
        licenseTestContext.CreateEnterpriseLicenseSecret(licenseSecretName, licenseBytes),
        licenseTestContext.CheckElasticsearchLicense(
            client.ElasticsearchLicenseTypeGold,
            client.ElasticsearchLicenseTypePlatinum,
        ),
        licenseTestContext.DeleteEnterpriseLicenseSecret(trialSecretName),
        licenseTestContext.DeleteEnterpriseLicenseSecret(licenseSecretName),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
        licenseTestContext.CheckEnterpriseTrialLicenseInvalid(trialSecretName),
    }
}

test.Sequence(initStepsFn, stepsFn, esBuilder).RunSequential(t)

// TestEnterpriseTrialExtension tests that trial extensions can be successfully applied and take effect.
// Starts and verifies an ECK-managed trial. Tests that license is applied and test cluster is running in trial mode.
// Then generates a development version of an Enterprise trial extension license with a development Elasticsearch
// license inside.
// Then tests that ECK accepts this license and propagates the Elasticsearch license to the test Elasticsearch cluster.
// Finally tests that trial extensions can be applied repeatedly as opposed to ECK-managed trials which are one-offs.
func TestEnterpriseTrialExtension(t *testing.T) {
    if test.Ctx().TestLicensePKeyPath == "" {
        t.SkipNow()
    }
```
privateKeyBytes, err := ioutil.ReadFile(test.Ctx().TestLicensePKeyPath)
require.NoError(t, err)
privateKey, err := x509.ParsePKCS8PrivateKey(privateKeyBytes)
require.NoError(t, err)

        WithESMasterDataNodes(1, elasticsearch.DefaultResources)


trialSecretName := "eck-trial"
licenseSecretName := "eck-license"
initStepsFn := func(k *test.K8sClient) test.StepList {
            return test.StepList{
                licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
                licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
            }
        }

stepsFn := func(k *test.K8sClient) test.StepList {
            return test.StepList{
                licenseTestContext.Init(),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
                // simulate a trial extension
                licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                        client.ElasticsearchLicenseTypeEnterprise, // depends on ES version
                ),
                // revert to basic again
                licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
                // repeatedly extending a trial is possible
                licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                        client.ElasticsearchLicenseTypeEnterprise, // depends on ES version
                ),
                // cleanup license for the next tests
                licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
            }
        }

licenseTestContext.DeleteAllEnterpriseLicenseSecrets()

licenseSecretName := "eck-license"
licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName)

initStepsFn := func(k *test.K8sClient) test.StepList {
            return test.StepList{
                licenseTestContext.Init(),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
                licenseTestContext.CheckEnterpriseTrialLicenseValid(trialSecretName),
            }
        }

stepsFn := func(k *test.K8sClient) test.StepList {
            return test.StepList{
                licenseTestContext.Init(),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
                // simulate a trial extension
                licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                        client.ElasticsearchLicenseTypeEnterprise, // depends on ES version
                ),
                // revert to basic again
                licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
                // repeatedly extending a trial is possible
                licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
                licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                        client.ElasticsearchLicenseTypeEnterprise, // depends on ES version
                ),
                // cleanup license for the next tests
                licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
            }
        }

licenseTestContext.DeleteAllEnterpriseLicenseSecrets()
```

package license

import (
    "context"
    "testing"
    "time"

    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/api/resource"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/types"
    "sigs.k8s.io/controller-runtime/pkg/client"

    apm1v1 "github.com/elastic/cloud-on-k8s/pkg/apis/apm/v1"
esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
kbv1 "github.com/elastic/cloud-on-k8s/pkg/apis/kibana/v1"
commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/kibana"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
)

const operatorNs = "test-system"

func TestGet(t *testing.T) {
    t.Run("elasticsearch_defaults", func(t *testing.T) {
        es := esv1.Elasticsearch{
            Spec: esv1.ElasticsearchSpec{
                NodeSets: []esv1.NodeSet{
                    {Count: 10},
                },
            },
        }
        have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
        require.NoError(t, err)
        want := LicensingInfo{
            TotalManagedMemory: 21.47,
            EnterpriseResourceUnits: 1,
            EckLicenseLevel: "basic",
        }
        require.Equal(t, want, have)

        want := LicensingInfo{
            TotalManagedMemory: 21.47,
            EnterpriseResourceUnits: 1,
            EckLicenseLevel: "basic",
        }
        require.Equal(t, want, have)
    })
}
t.Run("elasticsearch_with_resource_limits", func(t *testing.T) {
    es := esv1.Elasticsearch{
        Spec: esv1.ElasticsearchSpec{
            NodeSets: []esv1.NodeSet{
                Count: 100,
                PodTemplate: corev1.PodTemplateSpec{
                    Spec: corev1.PodSpec{
                        Containers: []corev1.Container{
                            Name: esv1.ElasticsearchContainerName,
                            Resources: corev1.ResourceRequirements{
                                Limits: map[corev1.ResourceName]resource.Quantity{
                                },
                            },
                        },
                    },
                },
            },
        },
    }
    have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
    require.NoError(t, err)
    want := LicensingInfo{
        TotalManagedMemory: 644.245,
        EnterpriseResourceUnits: 11,
        EckLicenseLevel: "basic",
    }
    assertEqual(t, want, have)
})

t.Run("elasticsearch_with_heap_settings", func(t *testing.T) {
    es := esv1.Elasticsearch{
        Spec: esv1.ElasticsearchSpec{
            NodeSets: []esv1.NodeSet{
                Count: 10,
                PodTemplate: corev1.PodTemplateSpec{
                    Spec: corev1.PodSpec{
                        Containers: []corev1.Container{
                            Name: esv1.ElasticsearchContainerName,
                            Env: []corev1.EnvVar{
                                Name: "ES_JAVA_OPTS", Value: "-Xms8G -Xmx8G",
                            },
                        },
                    },
                },
            },
        },
    }
    have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
    require.NoError(t, err)
    want := LicensingInfo{
        TotalManagedMemory: 644.245,
        EnterpriseResourceUnits: 11,
        EckLicenseLevel: "basic",
    }
    assertEqual(t, want, have)
})
have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
require.NoError(t, err)

want := LicensingInfo{
  TotalManagedMemory: 171.801,
  EnterpriseResourceUnits: 3,
  EckLicenseLevel: "basic",
}

assertEqual(t, want, have)
})

t.Run("kibana_defaults", func(t *testing.T) {
  kb := kbv1.Kibana{
    Spec: kbv1.KibanaSpec{
      Count: 100,
    },
  }

  have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
  require.NoError(t, err)

  want := LicensingInfo{
    TotalManagedMemory: 107.374,
    EnterpriseResourceUnits: 2,
    EckLicenseLevel: "basic",
  }

  assertEqual(t, want, have)
})

t.Run("kibana_with_resource_limits", func(t *testing.T) {
  kb := kbv1.Kibana{
    Spec: kbv1.KibanaSpec{
      Count: 100,
      PodTemplate: corev1.PodTemplateSpec{
        Spec: corev1.PodSpec{
          Containers: []corev1.Container{}}
    },
  }

  have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
  require.NoError(t, err)

  want := LicensingInfo{
    TotalManagedMemory: 107.374,
    EnterpriseResourceUnits: 2,
    EckLicenseLevel: "basic",
  }

  assertEqual(t, want, have)
})
have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
require.NoError(t, err)
want := LicensingInfo{
    TotalManagedMemory: 214.754,
    EnterpriseResourceUnits: 4,
    EckLicenseLevel: "basic",
}

assertEqual(t, want, have)
})

k := k8s.NewFakeClient(&kb)
Spec: kbv1.KibanaSpec{
    Count: 100,
    PodTemplate: corev1.PodTemplateSpec{
        Spec: corev1.PodSpec{
            Containers: []corev1.Container{
                {
                    Name: kbv1.KibanaContainerName,
                    Env: []corev1.EnvVar{ {
                        Name: kibana.EnvNodeOptions, Value: "--max-old-space-size=2048",
                    },
                    },
                }
            }
        }
    }
}

have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
require.NoError(t, err)
want := LicensingInfo{
    TotalManagedMemory: 204.804,
    EnterpriseResourceUnits: 4,
    EckLicenseLevel: "basic",
}
func assertEqual(t *testing.T, want, have LicensingInfo) {
    t.Helper()

    wantMap := want.toMap()
    delete(wantMap, "timestamp")

    haveMap := have.toMap()
    delete(haveMap, "timestamp")

    require.Equal(t, wantMap, haveMap)
}

func Test_Start(t *testing.T) {
    es := esv1.Elasticsearch{
        ObjectMeta: metav1.ObjectMeta{
            Name: "es-test",
        },
    apm := apmv1.ApmServer{Spec: apmv1.ApmServerSpec{Count: 2}}
    k8sClient := k8s.NewFakeClient(&es, &kb, &apm)
    refreshPeriod := 1 * time.Second
    waitFor := 10 * refreshPeriod
    tick := refreshPeriod / 2

    // start the resource reporter
    go NewResourceReporter(k8sClient, operatorNs).Start(refreshPeriod)

    // check that the licensing config map exists
    assert.Eventually(t, func() bool {
        var cm corev1.ConfigMap
        err := k8sClient.Get(context.Background(), types.NamespacedName{
            Namespace: operatorNs,
            Name: LicensingCfgMapName,
        }, &cm)
        if err != nil {
            return false
        }
        return cm.Data["timestamp"] != "" &&
        cm.Data["eck_license_level"] == defaultOperatorLicenseLevel &&
        cm.Data["enterprise_resource_units"] == "2" &&
        cm.Data["total_managed_memory"] == "89.12GB"
// increase the Elasticsearch nodes count
es.Spec.NodeSets[0].Count = 80
err := k8sClient.Update(context.Background(), &es)
assert.NoError(t, err)

// check that the licensing config map has been updated
assert.Eventually(t, func() bool {
    var cm corev1.ConfigMap
    err := k8sClient.Get(context.Background(), types.NamespacedName{
        Namespace: operatorNs,
        Name: LicensingCfgMapName,
    }, &cm)
    if err != nil {
        return false
    }
    return cm.Data["timestamp"] != "" &&
    cm.Data["eck_license_level"] == defaultOperatorLicenseLevel &&
    cm.Data["enterprise_resource_units"] == "3" &&
    cm.Data["total_managed_memory"] == "175.02GB"
}, waitFor, tick)

startTrial(t, k8sClient)

func startTrial(t *testing.T, k8sClient client.Client) {
t.Helper()

    trialState, err := commonlicense.NewTrialState()
    require.NoError(t, err)
    wrappedClient := k8sClient
    licenseNSN := types.NamespacedName{

Namespace: operatorNs,
Name: "eck-trial",

// simulate user kicking off the trial activation
require.NoError(t, commonlicense.CreateTrialLicense(wrappedClient, licenseNSN))
// fetch user created license
licenseSecret, license, err := commonlicense.TrialLicense(wrappedClient, licenseNSN)
require.NoError(t, err)
// fill in and sign
require.NoError(t, trialState.InitTrialLicense(&license))
status, err := commonlicense.ExpectedTrialStatus(operatorNs, licenseNSN, trialState)
require.NoError(t, err)
// persist status
require.NoError(t, wrappedClient.Create(context.Background(), &status))
// persist updated license
require.NoError(t, commonlicense.UpdateEnterpriseLicense(wrappedClient, licenseSecret, license))

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package license

import (
    "crypto/x509"
    "reflect"
    "testing"
    "time"

    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/types"
)

func TestInitTrialLicense(t *testing.T) {
    licenseFixture := EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterpriseTrial,
        },
    }
    type args struct {
        l *EnterpriseLicense
    }
    tests := []struct {
        name    string
        state   TrialState
        args    args
        want    func(*EnterpriseLicense)
        wantErr bool
    }{
        name: "nil license",
        args: args{
            l: nil,
        },
        want: func(l *EnterpriseLicense)
        wantErr: true,
    },
func TestPopulateTrialLicense(t *testing.T) {
    type args struct {
        l *EnterpriseLicense
    }
    nn := name: "not a trial license",
    args: args{
        l: &EnterpriseLicense{ },
    },
    want: func(l *EnterpriseLicense) {
        require.Equal(t, *l, EnterpriseLicense{ })
    },
    wantErr: true,
    },
    name: "successful trial start",
    state: state() {
        state, err := NewTrialState()
        require.NoError(t, err)
        return state
    }(),
    args: args{
        l: &licenseFixture,
    },
    want: func(l *EnterpriseLicense) {
        require.NoError(t, l.IsMissingFields())
    },
    wantErr: false,
    },
    name: "not in activation state",
    args: args{
        l: &licenseFixture,
    },
    wantErr: true,
    },
}
tests := []struct {
    name     string
    args     args
    assertions func(EnterpriseLicense)
    wantErr  bool
} {
    {
        name: "non-trial FAIL",
        args: args{
            l: &EnterpriseLicense{
                License: LicenseSpec{
                    Type: LicenseTypeEnterprise,
                },
            },
            wantErr: true,
        },
        name: "trial license OK",
        args: args{
            l: &EnterpriseLicense{
                License: LicenseSpec{
                    Type: LicenseTypeEnterpriseTrial,
                },
            },
            assertions: func(l EnterpriseLicense) {
                require.NoError(t, l.IsMissingFields())
            },
            wantErr: false,
        },
        // technically this code path should not be possible: we use the new type when creating a new trial
        // and we don't repopulate existing licenses
        name: "legacy trial still supported",
        args: args{
            l: &EnterpriseLicense{
                License: LicenseSpec{
                    Type: LicenseTypeLegacyTrial,
                },
            },
            assertions: func(l EnterpriseLicense) {
                require.NoError(t, l.IsMissingFields())
            },
            wantErr: false,
        },
    },
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        if err := populateTrialLicense(tt.args.l); (err != nil) != tt.wantErr {
            t.Errorf("PopulateTrialLicense() error = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.assertions != nil {
            tt.assertions(*tt.args.l)
        }
    })
}

func TestStartTrial(t *testing.T) {
    dateFixture := time.Date(2019, 01, 22, 0, 0, 0, 0, time.UTC)
    type args struct {
        start time.Time
        l     *EnterpriseLicense
    }
    tests := []struct {
        name       string
        args       args
        assertions func(EnterpriseLicense)
    }{
        name: "trial is 30 days",
        args: args{
            start: dateFixture,
        },
        assertions: func(license EnterpriseLicense) {
            assert.Equal(t, license.ExpiryTime().UTC(), time.Date(2019, 02, 21, 0, 0, 0, 0, time.UTC))
            assert.Equal(t, license.StartTime().UTC(), dateFixture)
        },
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            setStartAndExpiry(tt.args.l, tt.args.start)
        })
        if tt.assertions != nil {
            tt.assertions(*tt.args.l)
        }
    }
}

func TestNewTrialStateFromStatus(t *testing.T) {

key, err := newTrialKey()
require.NoError(t, err)

keySerialized, err := x509.MarshalPKIXPublicKey(&key.PublicKey)
require.NoError(t, err)

type args struct {
    trialStatus v1.Secret
}
tests := []struct {
    name    string
    args    args
    want    func(TrialState)
    wantErr bool
} {
    {
        name: "reconstructs state",
        args: args{
            trialStatus: v1.Secret{
                Data: map[string][]byte{
                    TrialPubkeyKey: keySerialized,
                },
            },
        },
        want: func(s TrialState) {
            require.True(t, s.IsTrialStarted())
            require.True(t, reflect.DeepEqual(s, TrialState{
                publicKey: &key.PublicKey,
            })),
        },
        wantErr: false,
    },
    {
        name: "error on garbage status",
        args: args{
            trialStatus: v1.Secret{
                Data: map[string][]byte{
                    TrialPubkeyKey: []byte("foo"),
                },
            },
        },
        wantErr: true,
        want: func(state TrialState) {
            require.False(t, state.IsTrialStarted())
        },
    }
}

for _, tt := range tests {

t.Run(tt.name, func(t *testing.T) {
    got, err := NewTrialStateFromStatus(tt.args.trialStatus)
    if (err != nil) != tt.wantErr {
        t.Errorf("NewTrialStateFromStatus() error = %v, wantErr %v", err, tt.wantErr)
        return
    }
    if tt.want != nil {
        tt.want(got)
    }
})

func TestExpectedTrialStatus(t *testing.T) {
    sampleKey, err := newTrialKey()
    require.NoError(t, err)
    pubKey, err := x509.MarshalPKIXPublicKey(&sampleKey.PublicKey)
    require.NoError(t, err)

type args struct {
    state TrialState
}

tests := []struct {
    name    string
    args    args
    want    v1.Secret
    wantErr bool
}{{
    name: "status during activation",
    args: args{
        state: TrialState{
            publicKey: &sampleKey.PublicKey,
            privateKey: sampleKey,
        },
    },
    want: v1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: "ns",
            Name:      TrialStatusSecretKey,
            Annotations: map[string]string{
                TrialLicenseSecretName:      "name",
                TrialLicenseSecretNamespace: "ns",
            },
        },
        Data: map[string][]byte{
            TrialPubkeyKey:     pubKey,
            TrialActivationKey: []byte("true"),
        },
    },
}}

func TestExpectedTrialStatusFromStatus(t *testing.T) {
    sampleKey, err := newTrialKey()
    require.NoError(t, err)
    pubKey, err := x509.MarshalPKIXPublicKey(&sampleKey.PublicKey)
    require.NoError(t, err)

    // Test cases
    tests := []struct {
        name    string
        args    args
        want    v1.Secret
        wantErr bool
    }{
        name: "status during activation",
        args: args{
            state: TrialState{
                publicKey: &sampleKey.PublicKey,
                privateKey: sampleKey,
            },
        },
        want: v1.Secret{
            ObjectMeta: metav1.ObjectMeta{
                Namespace: "ns",
                Name:      TrialStatusSecretKey,
                Annotations: map[string]string{
                    TrialLicenseSecretName:      "name",
                    TrialLicenseSecretNamespace: "ns",
                },
            },
            Data: map[string][]byte{
                TrialPubkeyKey:     pubKey,
                TrialActivationKey: []byte("true"),
            },
        },
    }

    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            got, err := NewTrialStateFromStatus(tt.args.trialStatus)
            if (err != nil) != tt.wantErr {
                t.Errorf("NewTrialStateFromStatus() error = %v, wantErr %v", err, tt.wantErr)
                return
            }
            if tt.want != nil {
                tt.want(got)
            }
        })
    }
}
wantErr: false,
{}
name: "status after activation",
args: args{
  state: TrialState{
    publicKey: &sampleKey.PublicKey,
  },
},
want: v1.Secret{
  ObjectMeta: metav1.ObjectMeta{
    Namespace: "ns",
    Name:      TrialStatusSecretKey,
    Annotations: map[string]string{
      TrialLicenseSecretName:      "name",
      TrialLicenseSecretNamespace: "ns",
    },
  },
  Data: map[string][]byte{
    TrialPubkeyKey: pubKey,
  },
},
wantErr: false,
{}
name: "with empty trial state",
args: args{
  state: TrialState{},
},
wantErr: true,
{}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    got, err := ExpectedTrialStatus("ns", types.NamespacedName{
      Namespace: "ns",
      Name:      "name",
    }, tt.args.state)
    if (err != nil) != tt.wantErr {
      t.Errorf("ExpectedTrialStatus() error = %v, wantErr %v", err, tt.wantErr)
      return
    }
    if !reflect.DeepEqual(got, tt.want) {
      t.Errorf("ExpectedTrialStatus() got = %v, want %v", got, tt.want)
    }
  })
}
No licence information provided.
Website: https://github.com/dgryski/go-gk
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package license

import (
    "crypto/rsa"
    "crypto/x509"
    "encoding/json"
    "fmt"
    "io/ioutil"
    "testing"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/runtime"
)

var (  
    licenseFixtureV3 = EnterpriseLicense{  
        License: LicenseSpec{  
            UID:                  "1A3E10B3-78AD-459B-86B9-230A53B3F282",  
            IssueDateInMillis:  1548115200000,  
            ExpiryDateInMillis: 1561247999999,  
            IssuedTo:           "Ben Bitdiddle",  
            Issuer:             "Alyssa P. Hacker,",  
            StartDateInMillis:  1548115200000,  
            Type:               "enterprise",  
            MaxInstances:       23,  
            Signature:          string(signatureFixtureV3),  
            Version:            3, // purely documentation neither verified nor signed  
        },
    }
    licenseFixtureV4 = EnterpriseLicense{  
        License: LicenseSpec{  
            UID:                  "1A3E10B3-78AD-459B-86B9-230A53B3F282",  
            IssueDateInMillis:  1548115200000,  
            ExpiryDateInMillis: 1561247999999,  
            IssuedTo:           "Ben Bitdiddle",  
            Issuer:             "Alyssa P. Hacker,",  
            StartDateInMillis:  1548115200000,  
            Type:               "enterprise",  
            MaxResourceUnits:   46,  
            Signature:          string(signatureFixtureV4),  
        },
    }
)
var emptyTrialLicenseFixture = EnterpriseLicense{
License: LicenseSpec{
Type: LicenseTypeEnterpriseTrial,
},
}

func externallySignedLicenseFixture() (EnterpriseLicense, error) {
expectedBytes, err := ioutil.ReadFile("testdata/externally-generated-lic.json")
if err != nil {
    return EnterpriseLicense{}, err
}
var lic EnterpriseLicense
err = json.Unmarshal(expectedBytes, &lic)
if err != nil {
    return EnterpriseLicense{}, err
}
return lic, nil
}

func withSignature(l EnterpriseLicense, sig []byte) EnterpriseLicense {
    l.License.Signature = string(sig)
    return l
}

func asRuntimeObject(l EnterpriseLicense) runtime.Object {
    bytes, err := json.Marshal(l)
    if err != nil {
        panic(err)
    }
    return &corev1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: "test-system",
            Name: fmt.Sprintf("test-%s-license", string(l.License.Type)),
            Labels: map[string]string{
                common.TypeLabelName: Type,
                LicenseLabelScope: string(LicenseScopeOperator),
                LicenseLabelType: string(l.License.Type),
            },
            Data: map[string][]byte{
                FileName: bytes,
            },
        }
    }
}
func asRuntimeObjects(l EnterpriseLicense, sig []byte) []runtime.Object {
    return []runtime.Object{
        asRuntimeObject(withSignature(l, sig)),
    }
}

func publicKeyBytesFixture(t *testing.T) []byte {
    t.Helper()
    bytes, err := x509.MarshalPKIXPublicKey(publicKeyFixture(t))
    require.NoError(t, err)
    return bytes
}

func publicKeyFixture(t *testing.T) *rsa.PublicKey {
    t.Helper()
    key, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
    require.NoError(t, err)
    return &key.PublicKey
}

var privateKeyFixture = []byte{
    0x30, 0x82, 0x04, 0xa5, 0x02, 0x01, 0x00, 0x02,
    0x82, 0x01, 0x01, 0x00, 0xe3, 0x4d, 0xbc, 0x9b,
    0x7e, 0x1e, 0x1a, 0xa4, 0x89, 0x28, 0x6e, 0x0f,
    0x7e, 0x10, 0xf2, 0x87, 0x52, 0xbc, 0x64, 0xd2,
    0x94, 0x46, 0x78, 0xf1, 0x5b, 0xd0, 0xda, 0xd3,
    0xdc, 0x56, 0x6e, 0x62, 0x6f, 0xa1, 0x9e, 0x12,
    0x65, 0x35, 0xc9, 0x92, 0x2e, 0xdd, 0xf3, 0xf2,
    0xd9, 0xf9, 0x99, 0x00, 0xa1, 0x11, 0xfd, 0x34,
    0x0b, 0x43, 0xb5, 0x5f, 0xe3, 0x94, 0x2c,
    0x92, 0x95, 0x75, 0x50, 0x88, 0x2f, 0x89, 0x41,
    0x79, 0x17, 0xad, 0x99, 0x38, 0x5a, 0x3e, 0xab,
    0xa2, 0x84, 0x2c, 0xb1, 0x13, 0x94, 0x85, 0xff,
    0x2d, 0x35, 0xd7, 0x8e, 0x6e, 0x17, 0xf4, 0x64,
    0x5d, 0x93, 0x8b, 0x9a, 0x44, 0x17, 0x81, 0x48,
    0xe9, 0x38, 0xd8, 0x59, 0x63, 0xd9, 0x6b, 0xaf,
    0xa2, 0x84, 0x2c, 0xb1, 0x13, 0x94, 0x85, 0xff,
    0x2d, 0x35, 0xd7, 0x8e, 0x6e, 0x17, 0xf4, 0x64,
    0x5d, 0x93, 0x8b, 0x9a, 0x44, 0x17, 0x81, 0x48,
    0xe9, 0x38, 0xd8, 0x59, 0x63, 0xd9, 0x6b, 0xaf,
    0xa2, 0x84, 0x2c, 0xb1, 0x13, 0x94, 0x85, 0xff,
    0x2d, 0x35, 0xd7, 0x8e, 0x6e, 0x17, 0xf4, 0x64,
    0x5d, 0x93, 0x8b, 0x9a, 0x44, 0x17, 0x81, 0x48,
    0xe9, 0x38, 0xd8, 0x59, 0x63, 0xd9, 0x6b, 0xaf,
    0xa2, 0x84, 0x2c, 0xb1, 0x13, 0x94, 0x85, 0xff,
    0x2d, 0x35, 0xd7, 0x8e, 0x6e, 0x17, 0xf4, 0x64,
    0x5d, 0x93, 0x8b, 0x9a, 0x44, 0x17, 0x81, 0x48,
    0xe9, 0x38, 0xd8, 0x59, 0x63, 0xd9, 0x6b, 0xaf,
    0xa2, 0x84, 0x2c, 0xb1, 0x13, 0x94, 0x85, 0xff,
```go
var signatureFixtureV3 = []byte{
    0x41, 0x41, 0x41, 0x41, 0x77, 0x41, 0x41,
    0x30, 0x31, 0x87, 0x47, 0x4c, 0x35, 0x61,
    0x45, 0x31, 0x4a, 0x53, 0x55, 0x4a, 0x44,
    0x5a, 0x30, 0x74, 0x4d, 0x6a, 0x74, 0x4b,
    0x46, 0x42, 0x6d, 0x45, 0x52, 0x35, 0x61,
    0x44, 0x46, 0x4c, 0x4f, 0x46, 0x70, 0x4f,
    0x31, 0x56, 0x53, 0x62, 0x6d, 0x34, 0x56,
    0x7a, 0x6c, 0x45, 0x59, 0x54, 0x51, 0x62,
    0x31, 0x6f, 0x30,
}

var signatureFixtureV3 = []byte{
    0xf7, 0xc7, 0xe0, 0x1f, 0x62, 0xb6, 0x2a, 0xa7,
    0xd3, 0xcd, 0x64, 0xf2, 0x41, 0x17, 0xe5, 0xda,
    0xe8, 0xf4, 0xed, 0x26, 0x05, 0xd6, 0xc7, 0x33,
    0x13, 0xd7, 0xd6, 0x9d, 0xc3, 0x35, 0x72, 0x88,
    0xff, 0xa4, 0x1a, 0xfe, 0xf0, 0x27, 0xf6, 0xb7,
    0xe9, 0xdf, 0x39, 0x3f, 0x8d, 0xd1, 0xd6, 0x05,
    0x06, 0x8a, 0xf4, 0xf0, 0xe1, 0x1b, 0x8d, 0x8a,
    0x34, 0xf9, 0x46, 0x35, 0xb6, 0xe8, 0xf5, 0x8a,
    0x81, 0x6a, 0x65, 0x42, 0x67, 0x6d, 0xe6, 0x91,
    0x81, 0x5e, 0x84, 0x97, 0x2b, 0x1a, 0x2c, 0x87,
    0xa4, 0x80, 0x8d, 0x25, 0xf2, 0xa7, 0x0f, 0x54,
    0x46, 0xd8, 0xfd, 0x34, 0x57, 0xe6, 0x85, 0xf6,
    0x7b, 0xa5, 0xfd, 0xda, 0xbd, 0x99, 0xeb, 0x73,
    0x76, 0xbd, 0xc5, 0x02, 0x81, 0x81, 0x00, 0xb7,
    0xb0, 0x0e, 0x3e, 0xb9, 0x43, 0x23, 0x97, 0x39,
    0xdc, 0x4c, 0xbf, 0xd8, 0xe0, 0x11, 0xc7, 0x51,
    0xe6, 0x8a, 0x36, 0x6d, 0x4f, 0x37, 0xf0, 0x56,
    0xa2, 0x2f, 0x14, 0x84, 0x22, 0x49, 0x80, 0x45,
    0xfa, 0xd0, 0xe5, 0x98, 0x1e, 0x9a, 0x97, 0x54,
    0x4f, 0x49, 0x44, 0x3d, 0xb7, 0x7f, 0x12, 0x16,
    0x08, 0x5e, 0xea, 0x3c, 0xb0, 0x0e, 0x3e, 0xb9,
    0x43, 0x23, 0x97, 0x39, 0xdc, 0x4c, 0xbf, 0xd8,
    0xe0, 0xd2, 0x26, 0x2c, 0x15, 0xe0, 0x8c, 0xd3,
    0xc1, 0xb9, 0x20, 0xf0, 0xc0, 0xfd, 0xb8, 0xd9,
    0xa1, 0x72, 0x90, 0xd8, 0x25, 0x8b, 0x10, 0x2b,
    0x94,
}
```
var signatureFixtureV4 = [byte{
0x41, 0x41, 0x41, 0x41, 0x41, 0x77, 0x41, 0x41,
0x41, 0x41, 0x33, 0x67, 0x61, 0x32, 0x76,
0x46, 0x46, 0x71, 0x67, 0x32, 0x50, 0x37,
0x45, 0x72, 0x47, 0x41, 0x41, 0x42,
0x61, 0x45, 0x31, 0x4a, 0x53, 0x55, 0x4a,
0x5a, 0x30, 0x74, 0x44, 0x51, 0x56, 0x46,
0x51, 0x54, 0x51, 0x57, 0x4d, 0x6a, 0x68,
0x4d, 0x31, 0x6c, 0x6c, 0x52, 0x33, 0x46,
0x54, 0x53, 0x6b, 0x47, 0x64, 0x4e, 0x46,
0x61, 0x45, 0x52, 0x35, 0x61, 0x44, 0x46,
0x4c, 0x4f, 0x46, 0x70, 0x4f, 0x53, 0x31,
0x56, 0x53, 0x62, 0x6d, 0x70, 0x34, 0x56,
0x7a, 0x6c, 0x45, 0x59, 0x54, 0x41, 0x35,
0x65, 0x46, 0x64, 0x69, 0x62, 0x55,
0x70, 0x32, 0x62, 0x31, 0x6f, 0x30,
0x55, 0x31, 0x70, 0x55, 0x47, 0x42, 0x72,
0x61, 0x54, 0x64, 0x6b, 0x4f, 0x39, 0x4d,
0x57, 0x69, 0x74, 0x61, 0x61, 0x30, 0x46,
0x76, 0x55, 0x6b, 0x67, 0x35, 0x54, 0x6b,
0x46, 0x30, 0x52, 0x48, 0x52, 0x69,
0x57, 0x45, 0x39, 0x59, 0x4c, 0x31,
0x52, 0x50, 0x56, 0x57, 0x5a, 0x72,
0x4d, 0x55, 0x67, 0x72, 0x4d, 0x6c, 0x55,
0x78, 0x51, 0x33, 0x6c, 0x54, 0x62, 0x46,
0x68, 0x57, 0x55, 0x57, 0x6c, 0x44,
0x4b, 0x30, 0x70, 0x52, 0x57, 0x47,
0x74, 0x59, 0x4d, 0x55, 0x70, 0x72,
0x4e, 0x46, 0x64, 0x71, 0x4e, 0x6e,
0x4a, 0x76, 0x62, 0x31, 0x46, 0x7a,
0x53, 0x33, 0x68, 0x50, 0x56,
0x57, 0x68, 0x6d, 0x4f, 0x48, 0x52,
0x4f, 0x5a, 0x47, 0x56, 0x50, 0x59,
0x6d, 0x68, 0x50, 0x4d, 0x46,
0x70, 0x47, 0x4d, 0x6c, 0x52, 0x70,
0x4e, 0x58, 0x42, 0x46, 0x52,
0x6a, 0x52, 0x47, 0x53, 0x54,
0x5a, 0x55, 0x61, 0x6c, 0x58,
0x56, 0x31, 0x42, 0x61, 0x59,
0x54, 0x59, 0x72, 0x64,
0x47, 0x59, 0x33, 0x53, 0x6e,
0x68, 0x54, 0x4f, 0x56, 0x52,
0x71, 0x59, 0x58, 0x56, 0x6b,
0x4e, 0x31, 0x4a, 0x4b, 0x4d,
0x45, 0x74, 0x48, 0x55,
0x6a, 0x5a, 0x72, 0x52, 0x55,
0x46, 0x7a, 0x63, 0x6d,
0x70, 0x58, 0x62, 0x56, 0x6c,
0x77, 0x52, 0x55, 0x52, 0x70,
0x63, 0x56, 0x4d, 0x31,
0x4e, 0x46, 0x52, 0x76,
0x61, 0x6d, 0x6c, 0x6f,
0x55, 0x30, 0x77, 0x30, 0x5a,
0x55, 0x31, 0x33, 0x4d,
0x32, 0x49, 0x30, 0x4e,
0x46, 0x55, 0x33, 0x64,
0x47, 0x6c, 0x4c, 0x57,
0x56, 0x48, 0x59, 0x58,
0x4a, 0x44, 0x4d, 0x6b,
0x52, 0x74, 0x62, 0x56,
0x64, 0x58, 0x62, 0x6b,
0x74, 0x59, 0x57, 0x6d,
0x7a, 0x51, 0x57, 0x31, 0x77,
0x4e, 0x46, 0x70, 0x58, 0x54,
0x48, 0x52, 0x68, 0x61,
0x53, 0x39, 0x35, 0x5a,
0x7a, 0x52, 0x4e,
package license

import (
    "bufio"
    "errors"
    "io"
    "os"
    "testing"
    apmv1 "github.com/elastic/cloud-on-k8s/pkg/apis/apm/v1"
    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    entv1 "github.com/elastic/cloud-on-k8s/pkg/apis/enterprisesearch/v1"
    kbv1 "github.com/elastic/cloud-on-k8s/pkg/apis/kibana/v1"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    "k8s.io/apimachinery/pkg/api/resource"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/runtime/serializer"
    "k8s.io/apimachinery/pkg/util/yaml"
)

func TestMemFromJavaOpts(t *testing.T) {
    tests := []struct {
        name     string
        actual   string
        expected resource.Quantity
        isErr    bool
    }{
    ```
name: "in k",
actual: "-Xms1k -Xmx8388608k",
expected: resource.MustParse("16777216Ki"),
},
{name: "in K",
actual: "-Xmx1024K",
expected: resource.MustParse("2048Ki"),
},
{name: "in m",
actual: "-Xmx512m -Xms256m",
expected: resource.MustParse("1024Mi"),
},
{name: "in M",
actual: "-Xmx256M",
expected: resource.MustParse("512Mi"),
},
{name: "in g",
actual: "-Xmx64g",
expected: resource.MustParse("128Gi"),
},
{name: "in G",
actual: "-Xmx64G",
expected: resource.MustParse("128Gi"),
},
{name: "without unit",
actual: "-Xmx1048576",
expected: resource.MustParse("2Mi"),
},
{name: "without value",
actual: "-XmxM",
isErr: true,
},
{name: "with an invalid Xmx",
actual: "-XMX1k",
isErr: true,
},
{name: "with an invalid unit",
actual: "-Xmx64GB",
isErr: true,
func TestMemFromJavaOpts(t *testing.T) {
    tests := []struct {
        name    string
        actual  string
        expected string
        isErr   bool
    }{
        
        name:   "with max-old-space-size option",
        actual: "--max-old-space-size=2048",
        expected: "2048M",
        isErr:   false,
    }

    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            got, err := memFromJavaOpts(tt.actual)
            if tt.isErr {
                assert.Error(t, err)
            } else {
                assert.NoError(t, err)
                if !got.Equal(tt.expected) {
                    t.Errorf("memFromJavaOpts(%s) = %v, want %s", tt.actual, got.String(), tt.expected.String())
                }
            }
        })
    }
}

func TestMemFromNodeOpts(t *testing.T) {
    tests := []struct {
        name    string
        actual  string
        expected string
        isErr   bool
    }{
        
        name:   "with max-old-space-size option",
        actual: "--max-old-space-size=2048",
        expected: "2048M",
        isErr:   false,
    }

    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            got, err := memFromJavaOpts(tt.actual)
            if tt.isErr {
                assert.Error(t, err)
            } else {
                assert.NoError(t, err)
                if !got.Equal(tt.expected) {
                    t.Errorf("memFromJavaOpts(%s) = %v, want %s", tt.actual, got.String(), tt.expected.String())
                }
            }
        })
    }
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        q, err := memFromNodeOptions(tt.actual)
        if tt.isErr {
            assert.Error(t, err)
        } else {
            assert.NoError(t, err)
            got := resource.MustParse(tt.expected)
            if !got.Equal(q) {
                t.Errorf("memFromNodeOptions(%s) = %v, want %s", tt.actual, got, tt.expected)
            }
        }
    })
}

func TestAggregator(t *testing.T) {
    objects := readObjects(t, "testdata/stack.yaml")
    client := k8s.NewFakeClient(objects...)  
    aggregator := Aggregator{client: client}
    
    val, err := aggregator.AggregateMemory()
    require.NoError(t, err)
    require.Equal(t, 349.940350976, inGB(val))
}

func readObjects(t *testing.T, filePath string) []runtime.Object {
    t.Helper()
    scheme := runtime.NewScheme()
    f, err := os.Open(filePath)
    require.NoError(t, err)
    defer f.Close()

    yamlReader := yaml.NewYAMLReader(bufio.NewReader(f))
    var objects []runtime.Object
for {
    yamlBytes, err := yamlReader.Read()
    if err != nil {
        if errors.Is(err, io.EOF) {
            break
        }
    }
    require.NoError(t, err)
    obj, _, err := decoder.Decode(yamlBytes, nil, nil)
    require.NoError(t, err)
    objects = append(objects, obj)
}

return objects
}

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package license

import (
    "bytes"
    "crypto"
    "crypto/rand"
    "crypto/rsa"
    "crypto/sha512"
    "crypto/x509"
    "encoding/base64"
    "encoding/binary"
    "encoding/json"
    "errors"
    "io"
    "time"
    errors2 "github.com/pkg/errors"
)

// Verifier verifies Enterprise licenses.
type Verifier struct {
    PublicKey *rsa.PublicKey
}

// Valid checks the validity of the given Enterprise license.
func (v *Verifier) Valid(l EnterpriseLicense, now time.Time) LicenseStatus {
    if !l.IsValid(now) {
        return LicenseStatusExpired
    }
    if err := v.ValidSignature(l); err != nil {
        log.Error(err, "Failed signature check")
        return LicenseStatusInvalid
    }
    return LicenseStatusValid
}

// ValidSignature checks signature of the given Enterprise license. Returns nil if valid.
func (v *Verifier) ValidSignature(l EnterpriseLicense) error {
    allParts := make([]byte, base64.StdEncoding.DecodedLen(len(l.License.Signature)))
    _, err := base64.StdEncoding.Decode(allParts, []byte(l.License.Signature))
    if err != nil {
        return errors2.Wrap(err, "failed to base64 decode signature")
    }
    buf := bytes.NewBuffer(allParts)
    

maxLen := uint32(len(allParts))

var version uint32
if err := readInt(buf, &version); err != nil {
    return errors2.Wrap(err, "failed to read version")
}

var magicLen uint32
if err := readInt(buf, &magicLen); err != nil {
    return errors2.Wrap(err, "failed to read magic length")
}
if magicLen > maxLen {
    return errors.New("magic exceeds max length")
}
magic := make([]byte, magicLen)
_, err = buf.Read(magic)
if err != nil {
    return errors2.Wrap(err, "failed to read magic")
}

var hashLen uint32
if err := readInt(buf, &hashLen); err != nil {
    return errors2.Wrap(err, "failed to read hash length")
}
if hashLen > maxLen {
    return errors.New("hash exceeds max length")
}
pubKeyFingerprint := make([]byte, hashLen)
_, err = buf.Read(pubKeyFingerprint)
if err != nil {
    return err
}

var signedContentLen uint32
if err := readInt(buf, &signedContentLen); err != nil {
    return errors2.Wrap(err, "failed to read signed content length")
}
if signedContentLen > maxLen {
    return errors.New("signed content exceeds max length")
}
signedContentSig := make([]byte, signedContentLen)
_, err = buf.Read(signedContentSig)
if err != nil {
    return err
}
contentBytes, err := l.SignableContentBytes()
if err != nil {
    return err
}
// TODO optional pubkey fingerprint check
hashed := sha512.Sum512(contentBytes)
return rsa.VerifyPKCS1v15(v.PublicKey, crypto.SHA512, hashed[:], signedContentSig)
}

// NewVerifier creates a new license verifier from a DER encoded public key.
func NewVerifier(pubKeyBytes []byte) (*Verifier, error) {
    key, err := ParsePubKey(pubKeyBytes)
    return &Verifier{
        PublicKey: key,
    }, err
}

func ParsePubKey(pubKeyBytes []byte) (*rsa.PublicKey, error) {
pub, err := x509.ParsePKIXPublicKey(pubKeyBytes)
if err != nil {
    return nil, err
}
pubKey, ok := pub.(*rsa.PublicKey)
if !ok {
    return nil, errors.New("public key is not an RSA key")
}
return pubKey, nil
}

// Signable represents data that can be signed by a Signer.
type Signable interface {
    // SignableContentBytes returns the data to be signed.
    SignableContentBytes() ([]byte, error)
    // Version indicates the version of the license spec used when generating SignableContentBytes.
    Version() int
}

// Signer signs Enterprise licenses.
type Signer struct {
    Verifier
    privateKey *rsa.PrivateKey
}

// NewSigner creates a new license signer from a private key.
func NewSigner(privKey *rsa.PrivateKey) *Signer {
    return &Signer{
        Verifier: Verifier{
            PublicKey: &privKey.PublicKey,
        },
        privateKey: privKey,
    }
}
// Sign signs the given Signable. Returns the signature or an error.
func (s *Signer) Sign(spec Signable) ([]byte, error) {
    toSign, err := spec.SignableContentBytes()
    if err != nil {
        return nil, err
    }
    rng := rand.Reader
    hashed := sha512.Sum512(toSign)

    rsaSig, err := rsa.SignPKCS1v15(rng, s.privateKey, crypto.SHA512, hashed[:])
    if err != nil {
        return nil, err
    }
    const magicLen = 13
    magic := make([]byte, magicLen)
    _, err = rand.Read(magic)
    if err != nil {
        return nil, err
    }
    publicKeyBytes, err := x509.MarshalPKIXPublicKey(s.PublicKey)
    if err != nil {
        return nil, errors2.Wrap(err, "while marshalling public key")
    }
    encPubKeyBytes, err := encryptWithAESECB(publicKeyBytes)
    if err != nil {
        return nil, errors2.Wrap(err, "while encrypting public key")
    }
    hash := make([]byte, base64.StdEncoding.EncodedLen(len(encPubKeyBytes)))
    base64.StdEncoding.Encode(hash, encPubKeyBytes)
    // version (uint32) + magic length (uint32) + magic + hash length (uint32) + hash + sig length (uint32) + sig
    sig := make([]byte, 0, 4+4+magicLen+4+len(hash)+4+len(rsaSig))

    buf := bytes.NewBuffer(sig)
    if err := writeInt(buf, spec.Version()); err != nil {
        return nil, err
    }
    if err := writeInt(buf, len(magic)); err != nil {
        return nil, err
    }
    _, err = buf.Write(magic)
    if err != nil {
        return nil, err
    }
    if err := writeInt(buf, len(hash)); err != nil {
        return nil, err
    }
    ....
return nil, err
}
_, err = buf.Write(hash)
if err != nil {
    return nil, err
}
if err := writeInt(buf, len(rsaSig)); err != nil {
    return nil, err
}
_, err = buf.Write(rsaSig)
if err != nil {
    return nil, err
}
sigBytes := buf.Bytes()
out := make([]byte, base64.StdEncoding.EncodedLen(len(sigBytes)))
base64.StdEncoding.Encode(out, sigBytes)
return out, nil
}

type licenseSpec struct {
    UID      string `json:"uid"`
    LicenseType string `json:"type"`
    IssueDate  string `json:"issue_date,omitempty"`
    StartDate  string `json:"start_date,omitempty"`
    ExpiryDate string `json:"expiry_date,omitempty"`
    IssueDateInMillis int64 `json:"issue_date_in_millis,omitempty"`
    StartDateInMillis int64 `json:"start_date_in_millis,omitempty"`
    ExpiryDateInMillis int64 `json:"expiry_date_in_millis,omitempty"`
    MaxInstances int    `json:"max_instances,omitempty"`
    MaxResourceUnits int    `json:"max_resource_units,omitempty"`
    IssuedTo    string `json:"issued_to"`
    Issuer      string `json:"issuer"`
}

func (l EnterpriseLicense) SignableContentBytes() ([]byte, error) {
    return unescapedJSONMarshal(licenseSpec{
        UID: l.License.UID,
        LicenseType:  string(l.License.Type),
        IssueDateInMillis: l.License.IssueDateInMillis,
        StartDateInMillis: l.License.StartDateInMillis,
        ExpiryDateInMillis: l.License.ExpiryDateInMillis,
        MaxInstances:     l.License.MaxInstances,
        MaxResourceUnits: l.License.MaxResourceUnits,
        IssuedTo:         l.License.IssuedTo,
        Issuer:           l.License.Issuer,
    })
}
// unescapedJSONMarshal is a custom JSON encoder that turns off Go json's default behaviour of escaping > < and &
// which is problematic and would lead to failed signature checks as our license signing does not escape those characters.
func unescapedJSONMarshal(t interface{}) ([]byte, error) {
  buffer := &bytes.Buffer{
  encoder := json.NewEncoder(buffer)
  encoder.SetEscapeHTML(false)
  err := encoder.Encode(t)
  if err != nil {
    return nil, err
  }
  marshaledBytes := buffer.Bytes()
  // json.Encoder adds an additional newline between objects which we do not want here
  // as it is not part of the signature. That's we we are trimming it here.
  return bytes.TrimRight(marshaledBytes, \"\n\"), err
}

func (l EnterpriseLicense) Version() int {
  return l.License.Version
}

func writeInt(buffer *bytes.Buffer, i int) error {
  in := make([]byte, 4)
  binary.BigEndian.PutUint32(in, uint32(i))
  _, err := buffer.Write(in)
  return err
}

func readInt(r io.Reader, i *uint32) error {
  out := make([]byte, 4)
  _, err := io.ReadFull(r, out)
  if err != nil {
    return err
  }
  *i = binary.BigEndian.Uint32(out)
  return nil
}

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package license

import (  "context"  "fmt"  "regexp"
// Aggregator aggregates the total of resources of all Elastic managed components

```go
// type Aggregator struct {
//     client k8s.Client
// }

// type aggregate func() (resource.Quantity, error)

// AggregateMemory aggregates the total memory of all Elastic managed components
func (a Aggregator) AggregateMemory() (resource.Quantity, error) {
    totalMemory := resource.Quantity{}

    for _, f := range []aggregate{
        a.aggregateElasticsearchMemory,
        a.aggregateKibanaMemory,
        a.aggregateApmServerMemory,
        a.aggregateEnterpriseSearchMemory,
    } {
        memory, err := f()
        if err != nil {
            return totalMemory, err
        }
        totalMemory.Add(memory)
    }

    return totalMemory, nil
}

func (a Aggregator) aggregateElasticsearchMemory() (resource.Quantity, error) {
    esList := esv1.ElasticsearchList{}
    if err != nil {
        return resource.Quantity{}, err
    }

    for _, es := range esList.Items {
        if err != nil {
            return resource.Quantity{}, err
        }
        totalMemory.Add(memory)
    }

    return totalMemory, nil
}
```
if err != nil {
    return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Elasticsearch memory")
}

var total resource.Quantity
for _, es := range esList.Items {
    for _, nodeSet := range es.Spec.NodeSets {
        mem, err := containerMemLimits(
            nodeSet.PodTemplate.Spec.Containers,
            esv1.ElasticsearchContainerName,
            essettings.EnvEsJavaOpts, memFromJavaOpts,
            nodespec.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Elasticsearch memory")
        }
        total.Add(multiply(mem, nodeSet.Count))
        log.V(1).Info("Collecting", "namespace", es.Namespace, "es_name", es.Name,
            "memory", mem.String(), "count", nodeSet.Count)
    }
}

return total, nil

func (a Aggregator) aggregateEnterpriseSearchMemory() (resource.Quantity, error) {
    var entList entv1.EnterpriseSearchList
    err := a.client.List(context.Background(), &entList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Enterprise Search memory")
    }

    var total resource.Quantity
    for _, ent := range entList.Items {
        mem, err := containerMemLimits(
            ent.Spec.PodTemplate.Spec.Containers,
            entv1.EnterpriseSearchContainerName,
            enterprisesearch.EnvJavaOpts, memFromJavaOpts,
            enterprisesearch.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Enterprise Search memory")
        }
        total.Add(multiply(mem, ent.Spec.Count))
        log.V(1).Info("Collecting", "namespace", ent.Namespace, "ent_name", ent.Name,
    }

    return total, nil
}
func (a Aggregator) aggregateKibanaMemory() (resource.Quantity, error) {
    var kbList kbv1.KibanaList
    err := a.client.List(context.Background(), &kbList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Kibana memory")
    }

    var total resource.Quantity
    for _, kb := range kbList.Items {
        mem, err := containerMemLimits(
            kb.Spec.PodTemplate.Spec.Containers,
            kbv1.KibanaContainerName,
            kibana.EnvNodeOptions, memFromNodeOptions,
            kibana.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Kibana memory")
        }
        total.Add(multiply(mem, kb.Spec.Count))
        log.V(1).Info("Collecting", "namespace", kb.Namespace, "kibana_name", kb.Name,
    }

    return total, nil
}

func (a Aggregator) aggregateApmServerMemory() (resource.Quantity, error) {
    var asList apmv1.ApmServerList
    err := a.client.List(context.Background(), &asList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
    }

    var total resource.Quantity
    for _, as := range asList.Items {
        mem, err := containerMemLimits(
            as.Spec.PodTemplate.Spec.Containers,
            apmv1.ApmServerContainerName,
            "", nil, // no fallback with limits defined in an env var
            apmserver.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
        }
        total.Add(multiply(mem, as.Spec.Count))
        log.V(1).Info("Collecting", "namespace", as.Namespace, "apm_server_name", as.Name,
            "memory", mem.String(), "count", as.Spec.Count)
    }

    return total, nil
}
return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
}

total.Add(multiply(mem, as.Spec.Count))
}

return total, nil
}

// containerMemLimits reads the container memory limits from the resource specification with fallback
// on the environment variable and on the default limits
func containerMemLimits(
    containers []corev1.Container,
    containerName string,
    envVarName string,
    envLookup func(envVar string) (resource.Quantity, error),
    defaultLimit resource.Quantity,
) (resource.Quantity, error) {
    var mem resource.Quantity
    for _, container := range containers {
        //nolint:nestif
        if container.Name == containerName {
            mem = *container.Resources.Limits.Memory()
        }
    }

    // if memory is defined at the container level, maybe fallback to the environment variable
    if envLookup != nil && mem.IsZero() {
        for _, envVar := range container.Env {
            if envVar.Name == envVarName {
                var err error
                mem, err = envLookup(envVar.Value)
                if err != nil {
                    return resource.Quantity{}, err
                }
            }
        }
    }

    // if still no memory found, fallback to the default limits
    if mem.IsZero() {
        mem = defaultLimit
    }

    return mem, nil
}
// maxHeapSizeRe is the pattern to extract the max Java heap size (-Xmx<size>[gGmMkK] in binary units)
var maxHeapSizeRe = regexp.MustCompile(`-Xmx([0-9]+)([gGmMkK]?)(?:\s.*|$)`) // memFromJavaOpts extracts the maximum Java heap size from a Java options string, multiplies the value by 2 // (giving twice the JVM memory to the container is a common thing people do)
// and converts it to a resource.Quantity
func memFromJavaOpts(javaOpts string) (resource.Quantity, error) {
    match := maxHeapSizeRe.FindStringSubmatch(javaOpts)
    if len(match) != 3 {
        return resource.Quantity{}, errors.Errorf("cannot extract max jvm heap size from %s", javaOpts)
    }
    value, err := strconv.Atoi(match[1])
    if err != nil {
        return resource.Quantity{}, err
    }
    suffix := match[2]
    if suffix != "" {
        // capitalize the suffix and add ‘i’ to have a surjection of [gGmMkK] in [GiMiKi]
        suffix = strings.ToUpper(match[2]) + "i"
    }
    // multiply by 2 and convert it to a quantity using the suffix
    return resource.ParseQuantity(fmt.Sprintf("%d%s", value*2, suffix))
}

// nodeHeapSizeRe is the pattern to extract the max heap size of the node memory (--max-old-space-size=<mb_size>)
var nodeHeapSizeRe = regexp.MustCompile("--max-old-space-size=(\[0-9]*)") // memFromNodeOptions extracts the Node heap size from a Node options string and converts it to a
resource.Quantity
func memFromNodeOptions(nodeOpts string) (resource.Quantity, error) {
    match := nodeHeapSizeRe.FindStringSubmatch(nodeOpts)
    if len(match) != 2 {
        return resource.Quantity{}, errors.Errorf("cannot extract max node heap size from %s", nodeOpts)
    }
    return resource.ParseQuantity(match[1] + "M")
}

// multiply multiplies a resource.Quantity by a value
func multiply(q resource.Quantity, v int32) resource.Quantity {
    var result resource.Quantity
    result.Set(q.Value() * int64(v))
    return result
}

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package license

import {
    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "sigs.k8s.io/controller-runtime/pkg/client"
    
}

const {
    // LicenseLabelName is a label pointing to the name of the source enterprise license.
    LicenseLabelName         = "license.k8s.elastic.co/name"
    LicenseLabelType         = "license.k8s.elastic.co/type"
    LicenseLabelScope        = "license.k8s.elastic.co/scope"
    Type                     = "license"
    EULAAnnotation           = "elastic.co/eula"
    EULAAcceptedValue        = "accepted"
    LicenseInvalidAnnotation = "license.k8s.elastic.co/invalid"
}

type LicenseScope string

const {
    LicenseScopeOperator = "operator"
    LicenseScopeElasticsearch = "elasticsearch"
}

// LabelsForOperatorScope creates a map of labels for operator scope with licence type set to the given value.
func LabelsForOperatorScope(t OperatorLicenseType) map[string]string {
    return map[string]string{
        common.TypeLabelName: Type,
        LicenseLabelScope:    string(LicenseScopeOperator),
        LicenseLabelType:     string(t),
    }
}

func NewLicenseByScopeSelector(scope LicenseScope) client.MatchingLabels {
    return map[string]string{
        LicenseLabelScope: string(scope),
    }
}

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// or more contributor license agreements. Licensed under the Elastic License;
// you may not use this file except in compliance with the Elastic License.
const (  
  name = "license-controller"
)

// defaultSafetyMargin is the duration used by this controller to ensure licenses are updated well before expiry  
// In case of any operational issues affecting this controller clusters will have enough runway on their current license.  
defaultSafetyMargin = 30 * 24 * time.Hour
minimumRetryInterval = 1 * time.Hour
)

var log = ulog.Log.WithName(name)

// Reconcile reads the cluster license for the cluster being reconciled. If found, it checks whether it is still valid.  
// If there is none it assigns a new one.  
// In any case it schedules a new reconcile request to be processed when the license is about to expire.  
// This happens independently from any watch triggered reconcile request.
func (r *ReconcileLicenses) Reconcile(ctx context.Context, request reconcile.Request) (reconcile.Result, error) {  
defer common.LogReconciliationRun(log, request, "es_name", &r.iteration)()
  results := r.reconcileInternal(request)  
  current, err := results.Aggregate()
return current, err
}

// Add creates a new EnterpriseLicense Controller and adds it to the Manager with default RBAC. The Manager will
// and Start it when the Manager is Started.
func Add(mgr manager.Manager, p operator.Parameters) error {
    r := newReconciler(mgr, p)
    c, err := common.NewController(mgr, name, r, p)
    if err != nil {
        return err
    }
    return addWatches(c, r.Client)
}

// newReconciler returns a new reconcile.Reconciler
func newReconciler(mgr manager.Manager, params operator.Parameters) *ReconcileLicenses {
    c := mgr.GetClient()
    return &ReconcileLicenses{
        Client:  c,
        checker: license.NewLicenseChecker(c, params.OperatorNamespace),
    }
}

func nextReconcile(expiry time.Time, safety time.Duration) reconcile.Result {
    return nextReconcileRelativeTo(time.Now(), expiry, safety)
}

func nextReconcileRelativeTo(now, expiry time.Time, safety time.Duration) reconcile.Result {
    // short-circuit to default if no expiry given
    if expiry.IsZero() {
        return reconcile.Result{
            RequeueAfter: minimumRetryInterval,
        }
    }
    requeueAfter := expiry.Add(-1 * (safety / 2)).Sub(now)
    if requeueAfter <= 0 {
        return reconcile.Result{Requeue: true}
    }
    return reconcile.Result{
        // requeue at expiry minus safetyMargin/2 to ensure we actually reissue a license on the next attempt
        RequeueAfter: requeueAfter,
    }
}

func addWatches(c controller.Controller, k8sClient k8s.Client) error {
    // Watch for changes to Elasticsearch clusters.
if err := c.Watch(&source.Kind{Type: &esv1.Elasticsearch{}}, &handler.EnqueueRequestForObject{},
); err != nil {
    return err
}

    secret, ok := object.(*corev1.Secret)
    if !ok {
        log.Error(pkgerrors.Errorf("unexpected object type %T in watch handler, expected Secret", object), "dropping watch event due to error in handler")
        return nil
    }
    if !license.IsOperatorLicense(*secret) {
        return nil
    }

    // if a license is added/modifed we want to update for potentially all clusters managed by this instance
    // of ECK which is why we are listing all Elasticsearch clusters here and trigger a reconciliation
    rs, err := reconcileRequestsForAllClusters(k8sClient)
    if err != nil {
        // dropping the event(s) at this point
        log.Error(err, "failed to list affected clusters in enterprise license watch")
        return nil
    }
    return rs
}),
); err != nil {
    return err
}

return nil

var _ reconcile.Reconciler = &ReconcileLicenses{}

// ReconcileLicenses reconciles EnterpriseLicenses with existing Elasticsearch clusters and creates ClusterLicenses for them.
type ReconcileLicenses struct {
    k8s.Client
    // iteration is the number of times this controller has run its Reconcile method
    iteration uint64
    checker   license.Checker
}

// findLicense tries to find the best Elastic stack license available.
func findLicense(c k8s.Client, checker license.Checker, minVersion *version.Version) (esclient.License, string,
tolist, errs := license.EnterpriseLicensesOrErrors(c)
if len(errs) > 0 {
    log.Info("Ignoring invalid license objects", "errors", errs)
}
return license.BestMatch(minVersion, licenseList, checker.Valid)

// reconcileSecret upserts a secret in the namespace of the Elasticsearch cluster containing the signature of its license.
func reconcileSecret(
c k8s.Client,
cluster esv1.Elasticsearch,
parent string,
esLicense esclient.License,
) error {
    secretName := esv1.LicenseSecretName(cluster.Name)
    licenseBytes, err := json.Marshal(esLicense)
    if err != nil {
        return err
    }
    expected := corev1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Name:      secretName,
            Namespace: cluster.Namespace,
            Labels: map[string]string{
                common.TypeLabelName:      license.Type,
                license.LicenseLabelName:  parent,
                license.LicenseLabelScope: string(license.LicenseScopeElasticsearch),
                license.LicenseLabelType:  esLicense.Type,
            },
            Data: map[string][]byte{
                license.FileName: licenseBytes,
            },
        },
    }
    // create/update a secret in the cluster's namespace containing the same data
    _, err = reconciler.ReconcileSecret(c, expected, &cluster)
    return err
}

// reconcileClusterLicense upserts a cluster license in the namespace of the given Elasticsearch cluster. Returns time to next reconciliation, bool whether a license is configured at all and optional error.
func (r *ReconcileLicenses) reconcileClusterLicense(cluster esv1.Elasticsearch) (time.Time, bool, error) {
    var noResult time.Time
    minVersion, err := r.minVersion(cluster)
if err != nil {
    return noResult, true, err
}

matchingSpec, parent, found := findLicense(r, r.checker, minVersion)
if !found {
    // no license, delete cluster level licenses to revert to basic
    secretName := esv1.LicenseSecretName(cluster.Name)
        ObjectMeta: k8s.ToObjectMeta(types.NamespacedName{
            Namespace: cluster.Namespace,
            Name:      secretName,
        }),
    })
    if err != nil && !errors.IsNotFound(err) {
    }
    return noResult, true, nil
}

// make sure the signature secret is created in the cluster's namespace
if err := reconcileSecret(r, cluster, parent, matchingSpec); err != nil {
    return noResult, false, err
}

return matchingSpec.ExpiryTime(), false, nil
}

func (r *ReconcileLicenses) minVersion(cluster esv1.Elasticsearch) (*version.Version, error) {
pods, err := sset.GetActualPodsForCluster(r, cluster)
    if err != nil {
        return nil, err
    }

    if err != nil {
        return nil, err
    }
    if minVersion == nil {
        if err != nil {
            return nil, err
        }
        minVersion = &v
    }

    return minVersion, nil
}
func (r *ReconcileLicenses) reconcileInternal(request reconcile.Request) *reconciler.Results {
    res := &reconciler.Results{

    // Fetch the cluster to ensure it still exists
    cluster := &sv1.Elasticsearch{
    err := r.Get(context.Background(), request.NamespacedName, &cluster)
    if err != nil {
        if errors.IsNotFound(err) {
            // nothing to do no cluster
            return res
        }
        return res.WithError(err)
    }
    if !cluster.DeletionTimestamp.IsZero() {
        // cluster is being deleted nothing to do
        return res
    }

    newExpiry, noLicense, err := r.reconcileClusterLicense(cluster)
    if err != nil {
        return res.WithError(err)
    }
    margin := defaultSafetyMargin
    if noLicense {
        // don't apply safety margin if we don't have a license but use requested requeue time as specified in newExpiry
        margin = 0
    }
    return res.WithResult(nextReconcile(newExpiry, margin))

    } // Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
    // or more contributor license agreements. Licensed under the Elastic License;
    // you may not use this file except in compliance with the Elastic License.

    package elasticsearch

    import {
        "encoding/json"
        "time"

        "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
        "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
        "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
        "github.com/google/uuid"
    }

type ESLicense struct {

func (e ESLicense) SignableContentBytes() ([]byte, error) {
    return json.Marshal(licenseSpec{
        UID: e.UID,
        LicenseType: e.Type,
        IssueDateInMillis: e.IssueDateInMillis,
        ExpiryDateInMillis: e.ExpiryDateInMillis,
        MaxNodes: nil, // assume v5 license w/ ERU
        MaxResourceUnits: e.MaxResourceUnits,
        IssuedTo: e.IssuedTo,
        Issuer: e.Issuer,
        StartDateInMillis: e.StartDateInMillis,
    })
}

func (e ESLicense) Version() int {
    return 5 // we only test the new enterprise capable license version
}

var _ license.Signable = &ESLicense{}

func GenerateTestLicense(signer *license.Signer) (client.License, error) {
    uuid, err := uuid.NewUUID()
    if err != nil {
        return client.License{}, err
    }
    licenseSpec := client.License{
        UID:                uuid.String(),
        Type:               "enterprise",
        IssueDateInMillis:  chrono.ToMillis(time.Now().Add(-3 * 24 * time.Hour)),
        ExpiryDateInMillis: chrono.ToMillis(time.Now().Add(30 * 24 * time.Hour)),
        MaxResourceUnits:   100,
        IssuedTo:           "ECK CI",
        Issuer:             "ECK e2e job",
    }
StartDateInMillis: chrono.ToMillis(time.Now().Add(-3 * 24 * time.Hour)),
}
sign, err := signer.Sign(ESLicense{License: licenseSpec})
if err != nil {
return client.License{}, err
}
licenseSpec.Signature = string(sign)
return licenseSpec, nil
}
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// or more contributor license agreements. Licensed under the Elastic License;
// you may not use this file except in compliance with the Elastic License.
package license
import ulog "github.com/elastic/cloud-on-k8s/pkg/utils/log"
var log = ulog.Log.WithName("license")
const (
// FileName is the name used in the license secret to point to the license data.
FileName = "license"
)
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// or more contributor license agreements. Licensed under the Elastic License;
// you may not use this file except in compliance with the Elastic License.
package elasticsearch
import (
"context"
"crypto/rsa"
"encoding/json"
"fmt"
"testing"
esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
"github.com/elastic/cloud-on-k8s/pkg/controller/common"
"github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
"github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
"github.com/elastic/cloud-on-k8s/pkg/utils/stringsutil"
"github.com/elastic/cloud-on-k8s/test/e2e/test"
"github.com/stretchr/testify/require"
corev1 "k8s.io/api/core/v1"
apierrors "k8s.io/apimachinery/pkg/api/errors"
metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
"k8s.io/apimachinery/pkg/types"
)

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type LicenseTestContext struct {
    esClient client.Client
    k        *test.K8sClient
    es       esv1.Elasticsearch
}

func NewLicenseTestContext(k *test.K8sClient, es esv1.Elasticsearch) LicenseTestContext {
    return LicenseTestContext{
        k:  k,
        es: es,
    }
}

func (ltctx *LicenseTestContext) Init() test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating Elasticsearch client",
        Test: func(t *testing.T) {
            esClient, err := NewElasticsearchClient(ltctx.es, ltctx.k)
            require.NoError(t, err)
            ltctx.esClient = esClient,
        }
    }
}

func (ltctx *LicenseTestContext) CheckElasticsearchLicenseFn(expectedTypes ...client.ElasticsearchLicenseType)
    error {
    l, err := ltctx.esClient.GetLicense(context.Background())
    if err != nil {
        return err
    }
    expectedStrings := make([]string, len(expectedTypes))
    for i, et := range expectedTypes {
        expectedStrings[i] = string(et)
    }
    if !stringsutil.StringInSlice(l.Type, expectedStrings) {
        return fmt.Errorf("expectedTypes license type %v got %s", expectedStrings, l.Type)
    }
    return nil
}

func (ltctx *LicenseTestContext) CheckElasticsearchLicense(expectedTypes ...client.ElasticsearchLicenseType)
    test.Step {
    return test.Step{
        Name: fmt.Sprintf("Elasticsearch license should be %v", expectedTypes),
        Test: test.Eventually(func() error {
            return ltctx.CheckElasticsearchLicenseFn(expectedTypes...)
        })
    }
}
func (ltctx *LicenseTestContext) CreateEnterpriseLicenseSecret(secretName string, licenseBytes []byte) test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating an Enterprise license secret",
        Test: func(t *testing.T) {
            test.CreateEnterpriseLicenseSecret(t, ltctx.k, secretName, licenseBytes)
        },
    }
}

func (ltctx *LicenseTestContext) CreateTrialExtension(secretName string, privateKey *rsa.PrivateKey) test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating a trial extension secret",
        Test: func(t *testing.T) {
            signer := license.NewSigner(privateKey)
            clusterLicense, err := GenerateTestLicense(signer)
            require.NoError(t, err)
            trialExtension := license.EnterpriseLicense{
                License: license.LicenseSpec{
                    UID:                clusterLicense.UID,
                    Type:               license.LicenseTypeEnterpriseTrial,
                    IssueDateInMillis:  clusterLicense.IssueDateInMillis,
                    ExpiryDateInMillis: clusterLicense.ExpiryDateInMillis,
                    MaxResourceUnits:   100,
                    IssuedTo:           clusterLicense.IssuedTo,
                    Issuer:             clusterLicense.Issuer,
                    StartDateInMillis:  clusterLicense.StartDateInMillis,
                    ClusterLicenses: []license.ElasticsearchLicense{
                        {License: clusterLicense},
                    },
                },
                Signature: string(signer.Sign(trialExtension.License)),
            }
            trialExtensionBytes, err := json.Marshal(trialExtension)
            require.NoError(t, err)
            ltctx.CreateEnterpriseLicenseSecret(secretName, trialExtensionBytes).Test(t)
        },
    }
}
func (ltctx *LicenseTestContext) CreateEnterpriseTrialLicenseSecret(secretName string) test.Step {
    return test.Step{
        Name: "Creating enterprise trial license secret",
        Test: test.Eventually(func() error {
            sec := corev1.Secret{
                ObjectMeta: metav1.ObjectMeta{
                    Namespace: test.Ctx().ManagedNamespace(0),
                    Name:      secretName,
                    Labels: map[string]string{
                        license.LicenseLabelType: string(license.LicenseTypeEnterpriseTrial),
                        common.TypeLabelName:     license.Type,
                    },
                    Annotations: map[string]string{
                        license.EULAAAnnotation: license.EULAAcceptedValue,
                    },
                },
            }
            return ltctx.k.CreateOrUpdate(&sec)
        }),
    }
}

func (ltctx *LicenseTestContext) checkEnterpriseTrialLicenseValidation(secretName string, valid bool) test.Step {
    return test.Step{
        Name: "Check enterprise trial license is annotated as invalid",
        Test: test.Eventually(func() error {
            var licenseSecret corev1.Secret
            err := ltctx.k.Client.Get(context.Background(), types.NamespacedName{
                Namespace: test.Ctx().ManagedNamespace(0),
                Name:      secretName,
            }, &licenseSecret)
            if err != nil {
                return err
            }
            _, exists := licenseSecret.Annotations[license.LicenseInvalidAnnotation]
            if exists == valid {
                return fmt.Errorf("trial license should have validation annotation [%v] and annotation was present [%v]", !valid, exists)
            }
            return nil
        }),
    }
}

func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseValid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, true)
}

func (ltctx *LicenseTestContext) checkEnterpriseTrialLicenseValidation(secretName string, valid bool) test.Step {
    return test.Step{
        Name: "Check enterprise trial license is annotated as invalid",
        Test: test.Eventually(func() error {
            var licenseSecret corev1.Secret
            err := ltctx.k.Client.Get(context.Background(), types.NamespacedName{
                Namespace: test.Ctx().ManagedNamespace(0),
                Name:      secretName,
            }, &licenseSecret)
            if err != nil {
                return err
            }
            _, exists := licenseSecret.Annotations[license.LicenseInvalidAnnotation]
            if exists == valid {
                return fmt.Errorf("trial license should have validation annotation [%v] and annotation was present [%v]", !valid, exists)
            }
            return nil
        }),
    }
}

func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseValid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, true)
func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseInvalid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, false)
}

func (ltctx *LicenseTestContext) DeleteEnterpriseLicenseSecret(licenseSecretName string) test.Step {
    return test.Step{
        Name: "Removing any test enterprise license secrets",
        Test: test.Eventually(func() error {
            // Delete operator license secret
            sec := corev1.Secret{
                ObjectMeta: metav1.ObjectMeta{
                    Namespace: test.Ctx().ManagedNamespace(0),
                    Name:     licenseSecretName,
                },
            }
            err := ltctx.k.Client.Delete(context.Background(), &sec)
            if err != nil && !apierrors.IsNotFound(err) {
                return err
            }
            return nil
        }),
    }
}

func (ltctx *LicenseTestContext) DeleteAllEnterpriseLicenseSecrets() test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Removing all Enterprise license secrets",
        Test: func(t *testing.T) {
            test.DeleteAllEnterpriseLicenseSecrets(t, ltctx.k)
        },
    }
}

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package trial

import (
    "bytes"
    "context"
    "fmt"
    "reflect"
    "sync/atomic"
    "time"
const (  
  name              = "trial-controller"
  EULAValidationMsg = "Please set the annotation elastic.co/eula to "accepted" to accept the EULA"
  trialOnlyOnceMsg  = "trial can be started only once"
  )

var (  
  log             = ulog.Log.WithName(name)  
  userFriendlyMsgs = map[licensing.LicenseStatus]string{
    licensing.LicenseStatusInvalid: "trial license signature invalid",
    licensing.LicenseStatusExpired: "trial license expired",
  }
)

// ReconcileTrials reconciles Enterprise trial licenses.  
// iteration is the number of times this controller has run its Reconcile method.  
// trialState licensing.TrialState  
// operatorNamespace string  
// Reconcile watches a trial status secret. If it finds a trial license it checks whether a trial has been started.  
// If not it starts the trial period if the user has expressed intent to do so.  
// If a trial is already running it validates the trial license.  
func (r *ReconcileTrials) Reconcile(ctx context.Context, request reconcile.Request) (reconcile.Result, error) {
// atomically update the iteration to support concurrent runs.
currentIteration := atomic.AddInt64(&r.iteration, 1)
iterationStartTime := time.Now()

defer func() {
}()

secret, license, err := licensing.TrialLicense(r, request.NamespacedName)
if err != nil && errors.IsNotFound(err) {
    log.Info("Trial license secret has been deleted by user, but trial had been started previously.")
    return reconcile.Result{}, nil
}
if err != nil {
    return reconcile.Result{}, pkgerrors.Wrap(err, "while fetching trial license")
}

if !license.IsECKManagedTrial() {
    // ignore externally generated licenses
    return reconcile.Result{}, nil
}

validationMsg := validateEULA(secret)
if validationMsg != "" {
    return r.invalidOperation(secret, validationMsg)
}

// 1. reconcile trial status secret
if err := r.reconcileTrialStatus(request.NamespacedName, license); err != nil {
    return reconcile.Result{}, pkgerrors.Wrap(err, "while reconciling trial status")
}

// 2. reconcile the trial license itself
trialLicensePopulated := license.IsMissingFields() == nil
licenseStatus := r.validateLicense(license)
switch {
    case !trialLicensePopulated && r.trialState.IsTrialStarted():
        // user wants to start a trial for the second time
        return r.invalidOperation(secret, trialOnlyOnceMsg)
    case !trialLicensePopulated && !r.trialState.IsTrialStarted():
        // user wants to init a trial for the first time
        return r.initTrialLicense(secret, license)
    case trialLicensePopulated && !validLicense(licenseStatus):
        // existing license is invalid (expired or tampered with)
        return r.invalidOperation(secret, userFriendlyMsgs[licenseStatus])
    case trialLicensePopulated && validLicense(licenseStatus) && !r.trialState.IsTrialStarted():
        // user wants to cancel a trial for the second time
        return r.invalidOperation(secret, trialOnlyOnceMsg)
    default:
        // existing license is valid
        return reconcile.Result{}, nil
}
// valid license, let's consider the trial started and complete the activation
return r.completeTrialActivation(request.NamespacedName)
case trialLicensePopulated && validLicense(licenseStatus) && r.trialState.IsTrialStarted():
  // all good nothing to do
  }
  return reconcile.Result{}, nil
  }
  
  func (r *ReconcileTrials) reconcileTrialStatus(licenseName types.NamespacedName, license
  licensing.EnterpriseLicense) error {
var trialStatus corev1.Secret
err := r.Get(context.Background(), types.NamespacedName{Namespace: r.operatorNamespace, Name:
  licensing.TrialStatusSecretKey}, &trialStatus)
if errors.IsNotFound(err) {
  if r.trialState.IsEmpty() {
    // we have no state in memory nor in the status secret: start the activation process
    if err := r.startTrialActivation(); err != nil {
      return err
    }
  }
  // we have state in memory but the status secret is missing: recreate it
  trialStatus, err = licensing.ExpectedTrialStatus(r.operatorNamespace, licenseName, r.trialState)
  if err != nil {
    return fmt.Errorf("while creating expected trial status %w", err)
  }
return r.Create(context.Background(), &trialStatus)
}
if err != nil {
  return fmt.Errorf("while fetching trial status %w", err)
}

  // the status secret is there but we don't have anything in memory: recover the state
  if r.trialState.IsEmpty() {
    recoveredState, err := recoverState(license, trialStatus)
    if err != nil {
      return err
    }
    r.trialState = recoveredState
  }
  // if trial status exists, but we need to update it because:
  // - has been tampered with
  // - we need to complete the trial activation because if failed on a previous attempt
  // - we just regenerated the state after a crash
  expected, err := licensing.ExpectedTrialStatus(r.operatorNamespace, licenseName, r.trialState)
  if err != nil {
    return err
  }

if reflect.DeepEqual(expected.Data, trialStatus.Data) {
    return nil
}

trialStatus.Data = expected.Data
return r.Update(context.Background(), &trialStatus)

func recoverState(license licensing.EnterpriseLicense, trialStatus corev1.Secret) (licensing.TrialState, error) {
    // allow new trial state only if we don't have license that looks like it has been populated previously
    allowNewState := license.IsMissingFields() != nil
    // create new keys if the operator failed just before the trial was started
    trialActivationInProgress := bytes.Equal(trialStatus.Data[licensing.TrialActivationKey], []byte("true"))
    if trialActivationInProgress && allowNewState {
        return licensing.NewTrialState()
    }
    // otherwise just recover the public key
    return licensing.NewTrialStateFromStatus(trialStatus)
}

func (r *ReconcileTrials) startTrialActivation() error {
    state, err := licensing.NewTrialState()
    if err != nil {
        return err
    }
    r.trialState = state
    return nil
}

func (r *ReconcileTrials) completeTrialActivation(license types.NamespacedName) (reconcile.Result, error) {
    if err := r.trialState.CompleteTrialActivation() {
        expectedStatus, err := licensing.ExpectedTrialStatus(r.operatorNamespace, license, r.trialState)
        if err != nil {
            return reconcile.Result{}, err
        }
        _, err = reconciler.ReconcileSecret(r, expectedStatus, nil)
        return reconcile.Result{}, err
    }
    return reconcile.Result{}, nil
}

func (r *ReconcileTrials) initTrialLicense(secret corev1.Secret, license licensing.EnterpriseLicense) (reconcile.Result, error) {
    if err := r.trialState.InitTrialLicense(&license); err != nil {
        return reconcile.Result{}, err
    }
    return reconcile.Result{}, licensing.UpdateEnterpriseLicense(r, secret, license)
}
func (r *ReconcileTrials) invalidOperation(secret corev1.Secret, msg string) (reconcile.Result, error) {
    setValidationMsg(&secret, msg)
    return reconcile.Result{}, r.Update(context.Background(), &secret)
}

func validLicense(status licensing.LicenseStatus) bool {
    return status == licensing.LicenseStatusValid
}

func (r *ReconcileTrials) validateLicense(license licensing.EnterpriseLicense) licensing.LicenseStatus {
    return r.trialState.LicenseVerifier().Valid(license, time.Now())
}

func validateEULA(trialSecret corev1.Secret) string {
    if licensing.IsEnterpriseTrial(trialSecret) &&
    trialSecret.Annotations[licensing.EULAAnnotation] != licensing.EULAAcceptedValue {
        return EULAValidationMsg
    }
    return ""
}

func setValidationMsg(secret *corev1.Secret, violation string) {
    if secret.Annotations == nil {
        secret.Annotations = map[string]string{}
    }
    log.Info("trial license invalid", "reason", violation)
    secret.Annotations[licensing.LicenseInvalidAnnotation] = violation
}

func newReconciler(mgr manager.Manager, params operator.Parameters) *ReconcileTrials {
    return &ReconcileTrials{
        Client:           mgr.GetClient(),
        recorder:         mgr.GetEventRecorderFor(name),
        operatorNamespace: params.OperatorNamespace,
    }
}

func addWatches(c controller.Controller) error {
    // Watch the trial status secret and the enterprise trial licenses as well
    return c.Watch(&source.Kind{Type: &corev1.Secret{}}, handler.EnqueueRequestsFromMapFunc(func(obj 
client.Object) []reconcile.Request {
    secret, ok := obj.(*corev1.Secret)
    if !ok {
        log.Error(fmt.Errorf("object of type %T in secret watch", obj), "dropping event due to type error")
    }
    if licensing.IsEnterpriseTrial(*secret) {
        return []reconcile.Request{
            
```
if obj.GetName() != licensing.TrialStatusSecretKey {
    return nil
}
return []reconcile.Request{
    {
        NamespacedName: types.NamespacedName{
            Namespace: secret.Annotations[licensing.TrialLicenseSecretNamespace],
            Name:      secret.Annotations[licensing.TrialLicenseSecretName],
        },
    }
}

// Add creates a new Trial Controller and adds it to the Manager with default RBAC. The Manager will set fields on
// the Controller
// and Start it when the Manager is Started.
func Add(mgr manager.Manager, params operator.Parameters) error {
    r := newReconciler(mgr, params)
    c, err := common.NewController(mgr, name, r, params)
    if err != nil {
        return err
    }
    return addWatches(c)
}

var _ reconcile.Reconciler = &ReconcileTrials{}

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package client

import (  
    "context"
    "io/ioutil"
    "net/http"
    "strings"
    "testing"
func TestClient_GetLicense(t *testing.T) {
    tests := []struct {
        expectedPath string
        version      version.Version
    }{
    }
    for _, tt := range tests {
        testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
            require.Equal(t, tt.expectedPath, req.URL.Path)
            return &http.Response{
                StatusCode: 200,
                Body:       ioutil.NopCloser(strings.NewReader(fixtures.LicenseGetSample)),
                Header:     make(http.Header),
                Request:    req,
            }
        })
        got, err := testClient.GetLicense(context.Background())
        assert.NoError(t, err)
        assert.Equal(t, "893361dc-9749-4997-93cb-802e3d7fa4xx", got.UID)
        assert.Equal(t, "platinum", got.Type)
        assert.EqualValues(t, time.Unix(0, 1548115200000*int64(time.Millisecond)).UTC(), *got.IssueDate)
        assert.Equal(t, int64(1548115200000), got.IssueDateInMillis)
        assert.EqualValues(t, time.Unix(0, 1561247999999*int64(time.Millisecond)).UTC(), *got.ExpiryDate)
        assert.Equal(t, int64(1561247999999), got.ExpiryDateInMillis)
        assert.Equal(t, 100, got.MaxNodes)
        assert.Equal(t, "issuer", got.Issuer)
        assert.Equal(t, int64(1548115200000), got.StartDateInMillis)
    }
}

func TestClient_UpdateLicense(t *testing.T) {
Tests := []struct {
  expectedPath string
  version      version.Version
}
{
  expectedPath: "/_xpack/license",
  version:      version.MustParse("6.8.0"),
},
{
  expectedPath: "/_license",
  version:      version.MustParse("7.0.0"),
},
}
for _, tt := range tests {
  testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
    require.Equal(t, tt.expectedPath, req.URL.Path)
    return &http.Response{
      StatusCode: 200,
      Body:       ioutil.NopCloser(strings.NewReader(fixtures.LicenseUpdateResponseSample)),
      Header:     make(http.Header),
      Request:    req,
    }
  })
  in := LicenseUpdateRequest{
    Licenses: []License{
      {
        UID:                "893361dc-9749-4997-93cb-802e3d7fa4xx",
        Type:               "basic",
        IssueDateInMillis:  0,
        ExpiryDateInMillis: 0,
        MaxNodes:           1,
        IssuedTo:           "unit-test",
        Issuer:             "test-issuer",
        Signature:          "xx",
      },
    },
  }
  got, err := testClient.UpdateLicense(context.Background(), in)
  assert.NoError(t, err)
  assert.Equal(t, true, got.Acknowledged)
  assert.Equal(t, "valid", got.LicenseStatus)
}
}
func TestClient_StartBasic(t *testing.T) {
  tests := []struct {
    expectedPath string
    version      version.Version
  }
  tests := []struct {
    expectedPath string
    version      version.Version
  }
for _, tt := range tests {
    testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
        require.Equal(t, tt.expectedPath, req.URL.Path)
        return &http.Response{
            StatusCode: 200,
            Body: ioutil.NopCloser(strings.NewReader(`{"acknowledged":true,"basic_was_started":true}`)),
            Header: make(http.Header),
            Request: req,
        }
    })
    got, err := testClient.StartBasic(context.Background())
    assert.NoError(t, err)
    assert.Equal(t, true, got.Acknowledged)
    assert.Equal(t, true, got.BasicWasStarted)
    assert.Empty(t, got.ErrorMessage)
}

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package client

import "context"

type LicenseClient interface {
    // GetLicense returns the currently applied license. Can be empty.
    GetLicense(ctx context.Context) (License, error)
    // UpdateLicense attempts to update cluster license with the given licenses.
    UpdateLicense(ctx context.Context, licenses LicenseUpdateRequest) (LicenseUpdateResponse, error)
    // StartBasic creates or reverts to a basic license.
    StartBasic(ctx context.Context) (StartBasicResponse, error)
    // StartTrial starts a 30-day trial period (which gives access to platinum features).
    StartTrial(ctx context.Context) (StartTrialResponse, error)
}

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1.2774 fiber-local 1.0.0
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# Fiber::Local

A module to simplify fiber-local state.


## Features

- Easily access fiber-local state from a fiber.
- Default to shared thread-local state.

## Installation

```bash
$ bundle add fiber-local
```

## Usage

In your own class, e.g. `Logger`:

```ruby
class Logger
  extend Fiber::Local

  def initialize
    @buffer = []
  end

  def log(*arguments)
    @buffer << arguments
  end
  end
```

Now, instead of instantiating your cache `LOGGER = Logger.new`, use `Logger.instance`. It will return a thread-local instance.

```ruby
Thread.new do
  Logger.instance
  #=> #<Logger:0x000055a14ec6be80>
end
```
Thread.new do
  Logger.instance
  # => #<Logger:0x000055a14ec597d0>
end
```
In cases where you have job per fiber or request per fiber, you might want to collect all log output for a specific fiber, you can do the following:
```
``` ruby
  Logger.instance
  # => #<Logger:0x000055a14ec6be80>
Fiber.new do
  Logger.instance = Logger.new
  # => #<Logger:0x000055a14ec597d0>
end
```
```ruby
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3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

## See Also

- [thread-local](https://github.com/socketry/thread-local)  Strictly thread-local variables.

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1.2775 python3-yaml 3.12 1build2

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This package was debianized by Scott Kitterman <scott@kitterman.com> on Fri, 09 Feb 2007 12:12:29 -0500.

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1.2777 joncrlsn-dque 2.2.1-0.20200515025108-956d14155fa2+incompatible

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1.2778 utils 0.0.0-20201110183641-67b214c5f920

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
ekubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Local to Remote
Copy a remote file from a Pod to a local file.

- Local file format is `\<path>``
- Remote file format is `\<pod-name>:\<path>``

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\.`

- `\<pod-namespace>\<pod-name>:\<path>``

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

1.2785 kubernetes-api 0.21.0-rc.0
1.2785.1 Available under license:

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1.2786 grafana 7.3.10

1.2786.1 Available under license :  

```yaml  
+++  
title = "License Expiration"  
description = ""  
keywords = ["grafana", "licensing"]  
type = "docs"  
[menu.docs]  
pARENT = "enterprise"  
weight = 8  
+++  

# License expiration  

If your license has expired most of Grafana keeps working as normal. Some enterprise functionality stops or runs with reduced functionality and Grafana displays a banner informing the users that Grafana is running on an expired license. Your Grafana admin needs to upload a new license file to restore full functionality.

> Replace your license as soon as possible. Running Grafana Enterprise with an expired license is unsupported and can lead to unexpected consequences.

## Update your license  

1. Locate your current `license.jwt` file. In a standard installation it is stored inside Grafana's data directory, which on a typical Linux installation is in `'/var/lib/grafana/data'`. This location might be overridden in the ini file [Configuration](https://grafana.com/docs/grafana/latest/administration/configuration/).  

```ini  
[enterprise]  
license_path = /path/to/your/license.jwt  
```  

The configuration file's location may also be overridden by the `GF_ENTERPRISE_LICENSE_PATH` environment variable.

1. Log in to your [Grafana Cloud Account](https://grafana.com/login) and make sure you're in the correct
organization in the dropdown at the top of the page.
1. Under the **Grafana Enterprise** section in the menu bar to the left, choose licenses and download the currently
valid license with which you want to run Grafana. If you cannot see a valid license on Grafana.com, please contact
your account manager at Grafana Labs to renew your subscription.
1. Replace the current `license.jwt`-file with the one you've just downloaded.
1. Restart Grafana.

## If your license expires

If your Grafana Enterprise license expires, the following functionality affected as follows.

### Data source permissions

Your current data source permissions will keep working as expected, but you'll be unable to add new data source
permissions until the license has been renewed.

### LDAP authentication

- LDAP synchronization is not affected by an expired license.
- Enhanced LDAP debugging is unavailable.

### SAML authentication

SAML authentication is not affected by an expired license.

### Reporting

- You're unable to configure new reports or generate previews.
- Scheduled reports are not generated or sent.

### Enterprise plugins

Enterprise plugins might stop working.

### White labeling

The white labeling feature is turned off, meaning that any white labeling options will not have any effect.

### Usage insights

All the usage insights features are turned off, meaning that you won't be able to look at dashboard usage, presence
indicator or to use improved search. Grafana still collects usage data and you will have access to it as soon as you
update your license.

### Vault integration

Vault integration is not affected by an expired license.
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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tomb - support for clean goroutine termination in Go.

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1.2821 python-meld3 1.0.2 2

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- Tres Seaver, 2006-02-09

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AES in libhcrypto

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tijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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D3DES (V5.09) -

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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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1.2837 image-spec v1.0.1

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1.2838 kmod 24 1ubuntu3.5

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package github

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

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

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

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()

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

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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

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//
package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"`
    Name   *string `json:"name,omitempty"`
    URL    *string `json:"url,omitempty"`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Category       *string   `json:"category,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Required       *[]string `json:"required,omitempty"`
    Permitted      *[]string `json:"permitted,omitempty"`
    Forbidden      *[]string `json:"forbidden,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() ([]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)
licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}

return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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Fortuna in libhcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "strings"  "testing"  )

var sentinels = []string{  "Copyright",  "Google",  "Licensed under the Apache License, Version 2.0 (the "License");",  
}

func TestLicense(t *testing.T) {  t.Parallel()  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {    if err != nil {      return err    }    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {      return nil    }  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {    return nil    }  if strings.HasSuffix(path, ".pb.go") {    // .pb.go files are generated from the proto files.    // .proto files must have license headers.    return nil  }  if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}

return nil

})
if err != nil {
t.Fatal(err)

}
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1.2853 jackson 2.6.0

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* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/LocaleJacksonConfigurer.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/TimeSerializationMode.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/JavaTimeConfigurer.java

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  jar/com/mastfrog/jackson/OptionalSerializer.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-
  jar/com/mastfrog/jackson/OptionalJavaUtilSerializer.java

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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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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>

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1.2867 libhtml-parser-perl 3.72-3build1
1.2867.1 Available under license:

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=back

=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;

$url = "http://www.perl.org/";
$sua = LWP::UserAgent->new;

# Set up a callback that collect image links
my @imgs = ();
sub callback {
    my($tag, %attr) = @_; 
    return if $tag ne 'img';  # we only look closer at <img ...>
    push(@imgs, values %attr);
}

# Make the parser. Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new($&callback);

# Request document and parse it as it arrives
$res = $sua->request(HTTP::Request->new(GET => $url),
    sub { $p->parse($_[0]) });

# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;

# Print them out
print join("\n", @imgs), "\n";

=head1 SEE ALSO
L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/LinkExtor.pm
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=encoding utf8

=head1 NAME

HTML::Entities - Encode or decode strings with HTML entities

=head1 SYNOPSIS

use HTML::Entities;

$a = "Våre norske tegn b\&oslash;r &\#230res";
decode_entities($a);
encode_entities($a, "200-377");

For example, this:

$input = "vis-\-vis Beyoncé's naïve\n\npapier\-m\-acirc\-ch\&eacute;sumé";
print encode_entities($input), "n"

Prints this out:

vis-\&agrave;-vis Beyoncé\&eacute;\'s naïve\n\npapier-m\-acirc\-ch\&eacute;\; \&eacute;sum\&eacute;

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=over 4

=item decode_entities( $string, ... )
This routine replaces HTML entities found in the $string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities( $string, \%entity2char )

=item _decode_entities( $string, \%entity2char, $expand_prefix )

This will in-place replace HTML entities in $string. The \%entity2char hash must be provided. Named entities not found in the \%entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in \%entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be single character strings. If a key has ";" as suffix, then occurrences in $string are only expanded if properly terminated with ";;". Entities without ";;" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If $expand_prefix is TRUE then entities without trailing ";;" in \%entity2char will even be expanded as a prefix of a longer unrecognized name. The longest matching name in \%entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.

$string = "foo&nbspbar";
_decode_entities($string, \{ nb => "@", nbsp => "\xA0" \}, 1);
print $string; # will print "foo bar"

This routine is exported by default.

=item encode_entities( $string )

=item encode_entities( $string, $unsafe_chars )

This routine replaces unsafe characters in $string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).
expressions).

The default set of characters to encode are control chars, high-bit chars, and
the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this,
for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, and C<< " >>
characters:

$encoded = encode_entities($input, "<>&");

and this would only encode non-plain ascii:

$encoded = encode_entities($input, ^\x20-\x25\x27-\x7e);

This routine is exported by default.

=item encode_entities_numeric( $string )

=item encode_entities_numeric( $string, $unsafe_chars )

This routine works just like encode_entities, except that the replacement
texts are always C<&I<entname>;> and never C<&I<entname>;>. For
example, C<encode_entities("r\xF4le")> returns "r&ocirc;le", but
C<encode_entities_numeric("r\xF4le")> returns "r&#xF4;le".

This routine is I<not> exported by default. But you can always
export it with C<use HTML::Entities qw(encode_entities_numeric)>;
or even C<use HTML::Entities qw(:DEFAULT encode_entities_numeric)>;

=back

All these routines modify the string passed as the first argument, if
called in a void context. In scalar and array contexts, the encoded or
decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you can
call them as:

use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);

The module can also export the %char2entity and the %entity2char
hashes, which contain the mapping from all characters to the
corresponding entities (and vice versa, respectively).

=head1 COPYRIGHT
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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Entities.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::Parser - HTML parser class

=head1 SYNOPSIS

use HTML::Parser ();

# Create parser object
$p = HTML::Parser->new( api_version => 3,
    start_h => \&start, "tagname, attr"],
    end_h   => \&end,   "tagname"],
    marked_sections => 1,
);

# Parse document text chunk by chunk
$p->parse($chunk1);
$p->parse($chunk2);
#...
$p->eof;                 # signal end of document

# Parse directly from file
$p->parse_file("foo.html");
# or
open(my $fh, "<:utf8", "foo.html") || die;
$p->parse_file($fh);

=head1 DESCRIPTION

Objects of the C<HTML::Parser> class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and
it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use C<HTML::PullParser>. This is an C<HTML::Parser> subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new C<HTML::Parser> object:

=over

=item $p = HTML::Parser->new( %options_and_handlers )

This class method creates a new C<HTML::Parser> object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options. The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "<event>_h" (e.g., "text_h") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the 'handlers => [%handlers]' option. See examples below.

If new() is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of C<HTML::Parser>. See the section on "version 2 compatibility" below for details.

The special constructor option 'api_version => 2' can be used to initialize version 2 callbacks while still setting other options and handlers. The 'api_version => 3' option can be used if you don't want to set any options and don't want to fall back to v2 compatible mode.

Examples:

$parser = HTML::Parser->new(api_version => 3,
    text_h => [ sub {...}, "dtext" ]);
This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

$p = HTML::Parser->new(api_version => 3,
   start_h => ['my_start', "self,tokens" ]);

This creates a new parser object with a start event handler method that receives the $p and the tokens array.

$p = HTML::Parser->new(api_version => 3,
   handlers => { text => [@array, "event,text"],
                 comment => [@array, "event,text"],
               });

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:

=over

=item $p->parse( $string )

Parse $string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the $string in-place until $p->parse returns.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object ($p).

=item $p->parse( $code_ref )

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens $p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls $p->eof.

The effect of this is the same as:

while (1) {
   my $chunk = &$code_ref();
   if (!defined($chunk) || !length($chunk)) {
      $p->eof;
}
return $p;
}
$p->parse($chunk) || return undef;
}

But it is more efficient as this loop runs internally in XS code.

=item $p->parse_file( $file )

Parse text directly from a file. The $file argument can be a filename, an open file handle, or a reference to an open file handle.

If $file contains a filename and the file can't be opened, then the method returns an undefined value and $! tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the $file argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse_file() may not have read the entire file.

On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if parse_file() is called on a file handle that is not in binary mode.

If a filename is passed in, then parse_file() will open the file in binary mode.

=item $p->eof

Signals the end of the HTML document. Calling the $p->eof method outside a handler callback will flush any remaining buffered text (which triggers the C<text> event if there is any remaining text).

Calling $p->eof inside a handler will terminate parsing at that point and cause $p->parse to return a FALSE value. This also terminates parsing by $p->parse_file().

After $p->eof has been called, the parse() and parse_file() methods can be invoked to feed new documents with the parser object.

The return value from eof() is a reference to the parser object.

=back
Most parser options are controlled by boolean attributes. Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

-over

=item $p->attr_encoded

=item $p->attr_encoded( $bool )

By default, the C<attr> and C:@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item $p->backquote

=item $p->backquote( $bool )

By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason. Enabling this attribute provides compatibility with this behaviour.

=item $p->boolean_attribute_value( $val )

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item $p->case_sensitive

=item $p->case_sensitive( $bool )

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item $p->closing_plaintext

=item $p->closing_plaintext( $bool )

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume
after seeing this tag. This emulates early gecko-based browsers.

=item $p->empty_element_tags

=item $p->empty_element_tags($bool)

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

=item $p->marked_sections

=item $p->marked_sections($bool)

By default, section markings like <![CDATA[...]]> are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

=item $p->strict_comment

=item $p->strict_comment($bool)

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

</comment>
<! comment>
By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

By default, almost anything is allowed in tag and attribute names. This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

```xml
<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>
```

By default, "LIST"]" is parsed as a boolean attribute, not as part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST"]" is not a legal attribute name.

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first segment of text and C<length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.
Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C<attr>, C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "&hearts;" or "&#x2665". If we feed the parser:

$p->parse("\xE2\x99\xA5&hearts;";);

then C<dtext> will be reported as "\xE2\x99\xA5\x{2665}" without C<utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5" when enabled. The later string is what you want.

This option is only available with perl-5.8 or better.

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the C<case_sensitive>, C<empty_element_tags>, C<strict_names> and C<xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

By default, I<processing instructions> are terminated by "">". When this attribute is enabled, processing instructions are terminated by "">" instead.

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:
=item $p->handler( event => \&subroutine, $argspec )

=item $p->handler( event => $method_name, $argspec )

=item $p->handler( event => \@accum, $argspec )

=item $p->handler( event => "" );

=item $p->handler( event => undef );

=item $p->handler( event );

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document>, C<end_document> or C<default>.

The C<\&subroutine> is a reference to a subroutine which is called to handle the event.

The C<$method_name> is the name of a method of $p which is called to handle the event.

The C<\@accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored.
If it is undef, the default handler is invoked for the event.

The C<$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The return value from $p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by invoking the $p->eof method. A handler callback is not allowed to invoke the $p->parse() or $p->parse_file() method. An exception will be raised if it tries.

Examples:

$ p->handler( start => "start", 'self, attr, attrseq, text' );
This causes the "start" method of object $p to be called for 'start' events. The callback signature is $p->start(%attr, @attr_seq, $text).

$p->handler(start => \&start, 'attr, attrseq, text');

This causes subroutine start() to be called for 'start' events. The callback signature is start(%attr, @attr_seq, $text).

$p->handler(start => \@accum, '"S", attr, attrseq, text');

This causes 'start' event information to be saved in @accum. The array elements will be ['S', %attr, @attr_seq, $text].

$p->handler(start => "");

This causes 'start' events to be ignored. It also suppresses invocations of any default handler for start events. It is in most cases equivalent to $p->handler(start => sub {}), but is more efficient. It is different from the empty-sub-handler in that C<skipped_text> is not reset by it.

$p->handler(start => undef);

This causes no handler to be associated with start events. If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events reported. The main bottleneck during parsing is often the huge number of callbacks made from the parser. Applying filters can improve performance significantly.

The following methods control filters:

=over

=item $p->ignore_elements( @tags )

Both the C<start> event and the C<end> event as well as any events that would be reported in between are suppressed. The ignored elements can contain nested occurrences of itself. Example:

$p->ignore_elements(qw(script style));

The C<script> and C<style> tags will always nest properly since their content is parsed in CDATA mode. For most other tags C<ignore_elements> must be used with caution since HTML is often not
I<well formed>.

=item $p->ignore_tags( @tags )

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

=item $p->report_tags( @tags )

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

=back

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:

$p->ignore_tags(qw(style));
$p->report_tags(qw(script style));

results in only C<script> events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

=over

=item C<attr>

Attr causes a reference to a hash of attribute name/value pairs to be passed.

Boolean attributes' values are either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.
General entities are decoded in the attribute values and one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as individual arguments and the original sequence of the attributes is kept. The parameters passed will be the same as the @attr calculated here:

```perl
@attr = map { $_ => $attr->{$_} } @$attrseq;
```

assuming $attr and $attrseq here are the hash and array passed as the result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>

Attrseq causes a reference to an array of attribute names to be passed. This can be useful if you want to walk the C<attr> hash in the original sequence.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed. The first column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are automatically decoded unless the event was inside a CDATA section or was between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>). The Unicode character set is assumed for entity decoding. With Perl version 5.6 or earlier only the Latin-1 range is supported, and entities for characters outside the range 0..255 are left unchanged.

This passes undef except for C<text> events.
Event causes the event name to be passed.

The event name is one of \texttt{C<text>}, \texttt{C<start>}, \texttt{C<end>}, \texttt{C<declaration>}, \texttt{C<comment>}, \texttt{C<process>}, \texttt{C<start_document>} or \texttt{C<end_document>}.

Is\_cdata causes a TRUE value to be passed if the event is inside a CDATA section or between literal start and end tags (\texttt{C<script>}, \texttt{C<style>}, \texttt{C<xmp>}, \texttt{C<iframe>}, \texttt{C<title>}, \texttt{C<textarea>} and \texttt{C<plaintext>}).

If the flag is FALSE for a text event, then you should normally either use \texttt{C<dtext>} or decode the entities yourself before the text is processed further.

Length causes the number of bytes of the source text of the event to be passed.

Line causes the line number of the start of the event to be passed. The first line in the document is 1. Line counting doesn't start until at least one handler requests this value to be reported.

Offset causes the byte position in the HTML document of the start of the event to be passed. The first byte in the document has offset 0.

Offset\_end causes the byte position in the HTML document of the end of the event to be passed. This is the same as \texttt{C<offset>} + \texttt{C<length>}.

Self causes the current object to be passed to the handler. If the handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures that capture $self$ by themselves as handlers. Unfortunately this creates circular references which prevent the HTML::Parser object from being garbage collected. Using the \texttt{C<self>} argspec avoids this
Skipped_text returns the concatenated text of all the events that have been skipped since the last time an event was reported. Events might be skipped because no handler is registered for them or because some filter applies. Skipped text also includes marked section markup, since there are no events that can catch it.

If an C"">-handler is registered for an event, then the text for this event is not included in C<skipped_text>. Skipped text both before and after the C"">-event is included in the next reported C<skipped_text>.

Same as C<tagname>, but prefixed with "!" if it belongs to an C<end> event and "!" for a declaration. The C<tag> does not have any prefix for C<start> events, and is in this case identical to C<tagname>.

This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange.
In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

Token0 causes the original text of the first token string to be passed. This should always be the same as $tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.
This passes undef if there are no tokens in the event.

==item C\textless tokenpos\textgreater

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C\textless tokens\textgreater, this array contains two numbers. The first number is the offset of the start of the token in the original C\textless text\textgreater and the second number is the length of the token.

Boolean attributes in a C\textless start\textgreater event will have (0,0) for the attribute value offset and length.

This passes undef if there are no tokens in the event (e.g., C\textless text\textgreater) and for artificial C\textless end\textgreater events triggered by empty element tags.

If you are using these offsets and lengths to modify C\textless text\textgreater, you should either work from right to left, or be very careful to calculate the changes to the offsets.

==item C\textless tokens\textgreater

Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C\textless declaration\textgreater events, the array contains each word, comment, and delimited string starting with the declaration type.

For C\textless comment\textgreater events, this contains each sub-comment. If \$p->strict_comments is disabled, there will be only one sub-comment.

For C\textless start\textgreater events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by \$p->boolean_attribute_value, or the attribute name if no value has been set by \$p->boolean_attribute_value.

For C\textless end\textgreater events, this contains the original tag name (always one token).

For C\textless process\textgreater events, this contains the process instructions (always one token).

This passes C\textless undef\textgreater for C\textless text\textgreater events.

==item C\textless text\textgreater

Text causes the source text (including markup element delimiters) to be
passed.
=item C<undef>
Pass an undefined value. Useful as padding where the same handler
routine is registered for multiple events.
=item C<'...'>
A literal string of 0 to 255 characters enclosed
in single (') or double (") quotes is passed as entered.
=back
The whole argspec string can be wrapped up in C<'@{...}'> to signal
that the resulting event array should be flattened. This only makes a
difference if an array reference is used as the handler target.
Consider this example:
$p->handler(text => [], 'text');
$p->handler(text => [], '@{text}']);
With two text events; C<"foo">, C<"bar">; then the first example will end
up with [["foo"], ["bar"]] and the second with ["foo", "bar"] in
the handler target array.

=head2 Events
Handlers for the following events can be registered:
=over
=item C<comment>
This event is triggered when a markup comment is recognized.
Example:
<!-- This is a comment -- -- So is this -->
=item C<declaration>
This event is triggered when a I<markup declaration> is recognized.
For typical HTML documents, the only declaration you are
likely to find is <!DOCTYPE ...>.

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Example:

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
```

DTDs inside `<!DOCTYPE ...>` will confuse HTML::Parser.

=item C<default>

This event is triggered for events that do not have a specific
handler. You can set up a handler for this event to catch stuff you
did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

```html
</A>
```

=item C<end_document>

This event is triggered when $p->eof is called and after any remaining
text is flushed. There is no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is
recognized.

The format and content of processing instructions are system and
application dependent.

Examples:

```html
<? HTML processing instructions >
<? XML processing instructions ?>
```

=item C<start>

This event is triggered when a start tag is recognized.

Example:

```html
<A HREF="http://www.perl.com/">
```

=item C<start_document>
This event is triggered before any other events for a new document. A handler for it can be used to initialize stuff. There is no document text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized. The text may contain multiple lines. A sequence of text may be broken between several text events unless $p->unbroken_text is enabled.

The parser will make sure that it does not break a word or a sequence of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser> can parse Unicode strings when running under perl-5.8 or better. If Unicode is passed to $p->parse() then chunks of Unicode will be reported to the handlers. The offset and length argspecs will also report their position in terms of characters.

It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use I<argspecs> that do, or enable the C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to $p->parse_file() then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

    open(my $fh, "<utf8", "index.html") || die "...: $!";
    $p->parse_file($fh);

If the file contains text encoded in a charset besides ASCII, Latin-1 or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an C<HTML::Parser> object is constructed with no arguments, a set of handlers is automatically provided that is compatible with the old HTML::Parser version 2 callback methods.
This is equivalent to the following method calls:

```perl
$p->handler(start => "start", "self, tagname, attr, attrseq, text");
$p->handler(end => "end", "self, tagname, text");
$p->handler(text => "text", "self, text, is_cdata");
$p->handler(process => "process", "self, token0, text");
$p->handler(comment =>
  sub {
    my($self, $tokens) = @_; 
    for (@$tokens) { $self->comment($_); }
  },
  "self, tokens");

Setting up these handlers can also be requested with the "api_version =>
2" constructor option.

=head1 SUBCLASSING

The C<HTML::Parser> class is subclassable. Parser objects are plain
hashes and C<HTML::Parser> reserves only hash keys that start with
"_hparsers". The parser state can be set up by invoking the init()
method, which takes the same arguments as new().

=head1 EXAMPLES

The first simple example shows how you might strip out comments from
an HTML document. We achieve this by setting up a comment handler that
does nothing and a default handler that will print out anything else:

```perl
use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
  comment_h => [""],
)->parse_file(shift || die) || die $!;
```

An alternative implementation is:

```perl
use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift }, 'skipped_text'],
  comment_h => [""],
)->parse_file(shift || die) || die $!;
```

This will in most cases be much more efficient since only a single
callback will be made.

The next example prints out the text that is inside the <title>
element of an HTML document. Here we start by setting up a start
handler. When it sees the title start tag it enables a text handler
that prints any text found and an end handler that will terminate
parsing as soon as the title end tag is seen:
use HTML::Parser ();
sub start_handler
{
return if shift ne "title";
my $self = shift;
$self->handler(text => sub { print shift }, "dtext");
$self->handler(end => sub { shift->eof if shift eq "title"; },
"tagname,self");
}
my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";
More examples are found in the F<eg/> directory of the C<HTML-Parser>
distribution: the program C<hrefsub> shows how you can edit all links
found in a document; the program C<htextsub> shows how to edit the text only; the
program C<hstrip> shows how you can strip out certain tags/elements
and/or attributes; and the program C<htext> show how to obtain the
plain text, but not any script/style content.
You can browse the F<eg/> directory online from the I<[Browse]> link on
the http://search.cpan.org/~gaas/HTML-Parser/ page.
=head1 BUGS
The <style> and <script> sections do not end with the first "</", but
need the complete corresponding end tag. The standard behaviour is
not really practical.
When the I<strict_comment> option is enabled, we still recognize
comments where there is something other than whitespace between even
and odd "--" markers.
Once $p->boolean_attribute_value has been set, there is no way to
restore the default behaviour.
There is currently no way to get both quote characters
into the same literal argspec.

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Empty tags, e.g. "<" and "/>", are not recognized. SGML allows them to repeat the previous start tag or close the previous start tag respectively.

NET tags, e.g. "code/.../" are not recognized. This is SGML shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt<b>...</b</tt>" are not recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a hash as required by the HTML::Parser methods.

=item Bad signature in parser state object at %p

(F) The _hparser_xs_state element does not refer to a valid state structure. Something must have changed the internal value stored in this hash element, or the memory has been overwritten.

=item _hparser_xs_state element is not a reference

(F) The _hparser_xs_state element has been destroyed.

=item Can't find '_hparser_xs_state' element in HTML::Parser hash

(F) The _hparser_xs_state element is missing from the parser hash. It was either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s

(F) The constructor option 'api_version' with an argument greater than or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the new() or init() methods.
=item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method. This is not permitted.

=item marked sections not supported

(F) The $p->marked_sections() method was invoked in a HTML::Parser module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for $p->handler must be either a subroutine reference, then name of a subroutine or method, or a reference to an array.

=item No handler for %s events

(F) The first argument to $p->handler must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

=item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name. Use one of the names mentioned in the argspec section above.

=item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

=item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals. It is reserved to permit quoting inside a literal in a later version.

=item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas
are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",".

=item Parsing of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one or more argspecs that decode entities are used for the callback handlers.

The result of decoding will be a mix of encoded and decoded characters for any entities that expand to characters with code above 127. This is not a good thing.

The recommended solution is to apply Encode::decode_utf8() on the data before feeding it to the $p->parse(). For $p->parse_file() pass a file that has been opened in "utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before passing strings to $p->parse(). The parser can process raw undecoded UTF-8 sanely if the C<utf8_mode> is enabled, or if the "attr", "@attr" or "dtext" argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a legal Unicode character but a byte swapped BOM. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokeParser>, L<HTML::HeadParser>, L<HTML::LinkExtor>, L<HTML::Form>
More information about marked sections and processing instructions may be found at [http://www.is-thought.co.uk/book/sgml-8.htm].

=head1 COPYRIGHT

Copyright 1996-2016 Gisle Aas. All rights reserved.
Copyright 1999-2000 Michael A. Chase. All rights reserved.

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/1119808571_1609793015.80/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm

No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2016, Gisle Aas
* Copyright 1999-2000, Michael A. Chase
* *
* This library 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/1119808571_1609793015.80/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
* /opt/cola/permits/1119808571_1609793015.80/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h

No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::TokeParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

require HTML::TokeParser;
$p = HTML::TokeParser->new("index.html") ||
    die "Can't open: $!";
$p->empty_element_tags(1); # configure its behaviour
while (my $token = $p->get_token) {
    #...
}

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a predeclared set of token types. If you wish the tokens to be reported differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item $p = HTML::TokeParser->new( $filename, %opt );

=item $p = HTML::TokeParser->new( $filehandle, %opt );

=item $p = HTML::TokeParser->new( \$document, %opt );

The object constructor argument is either a file name, a file handle object, or the complete document to be parsed. Extra options can be provided as key/value pairs and are processed as documented by the base classes.

If the argument is a plain scalar, then it is taken as the name of a file to be opened and parsed. If the file can't be opened for reading, then the constructor will return C<undef> and $! will tell you why it failed.

If the argument is a reference to a plain scalar, then this scalar is taken to be the literal document to parse. The value of this scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the C<HTML::TokeParser> can read() from when it needs more data. Typically it will be a filehandle of some kind. The stream will be read() until EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes by having the C<br> attribute enabled by default. See L<HTML::Parser> for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable C<empty_element_tags> behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn
on UTF-8 decoding:

```perl
open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
my $p = HTML::TokeParser->new( $fh );
# ...
```

If a $filename is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```perl
utf8::decode($document);
my $p = HTML::TokeParser->new( $document );
# ...
```

=item $p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag, "T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

```plaintext
[S", $tag, $attr, $attrseq, $text]
[E", $tag, $text]
[T", $text, $is_data]
[C", $text]
[D", $text]
[PI", $token0, $text]
```

where $attr is a hash reference, $attrseq is an array reference and the rest are plain scalars. The L<HTML::Parser/Argspec> explains the details.

=item $p->unget_token( @tokens )

If you find you have read too many tokens you can push them back, so that they are returned the next time $p->get_token is called.

=item $p->get_tag

=item $p->get_tag( @tags )

This method returns the next start or end tag (skipping any other tokens), or C<undef> if there are no more tags in the document. If
one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

```perl
$p->get_tag("font", "/font");
```

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as for $p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

```perl
[$tag, $attr, $attrseq, $text]
```

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

```perl
["/$tag", $text]
```

=item $p->get_text

=item $p->get_text( @endtags )

This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

```perl
$p->get_text("p", "br");
```

will return the text up to either a paragraph or linebreak element.

The text might span tags that should be textified. This is controlled by the $p->{textify} attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default $p->{textify} value is:

```perl
{ img => "alt", applet => "alt" }
```
This means that `<IMG>` and `<APPLET>` tags are treated as text, and that
the text to substitute can be found in the ALT attribute.

=item $p->get_trimmed_text

=item $p->get_trimmed_text( @endtags )

Same as $p->get_text above, but will collapse any sequences of white
space to a single space character. Leading and trailing white space is
removed.

=item $p->get_phrase

This will return all text found at the current position ignoring any
phrasal-level tags. Text is extracted until the first non
phrasal-level tag. Textification of tags is the same as for
get_text(). This method will collapse white space in the same way as
get_trimmed_text() does.

The definition of `<i>`phrasal-level tags`</i>` is obtained from the
HTML::Tagset module.

=back

=head1 EXAMPLES

This example extracts all links from a document. It will print one
line for each link, containing the URL and the textual description
between the `<A>`...`</A>` tags:

use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");

while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || ";";
    my $text = $p->get_trimmed_text("/a");
    print "$url$text\n";
}

This example extract the `<TITLE>` from the document:

use HTML::TokeParser;
$P = HTML::TokeParser->new(shift||"index.html");
if ($P->get_tag("title")) {
    my $title = $P->get_trimmed_text;
    print "Title: $title\n";
}
=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the functionality of C<HTML::Filter> much more efficiently with the C<default> handler.

=head1 SYNOPSIS

require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the original text of each HTML element (a slow version of cat(1) basically). The callback methods may be overridden to modify the filtering for some HTML elements and you can override output() method which is called to print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that the document should be given to the parser by calling the $p->parse() or $p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an
HTML file. This is achieved by simply overriding the comment method to do nothing.

package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { }  # ignore comments

The second example shows a filter that will remove any E&lt;TABLE&gt;s found in the HTML file. We specialize the start() and end() methods to count table tags and then make output not happen when inside a table.

package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
  my $self = shift;
  $self->{table_seen}++ if $_[0] eq "table";
  $self->SUPER::start(@_);
}
sub end
{
  my $self = shift;
  $self->SUPER::end(@_);
  $self->{table_seen}-- if $_[0] eq "table";
}
sub output
{
  my $self = shift;
  unless ($self->{table_seen}) {
    $self->SUPER::output(@_);
  }
}

If you want to collect the parsed text internally you might want to do something like this:

package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]->{fhtml}}, $_[1]) }
sub filtered_html { join("", @{$_[0]->{fhtml}}) }

=head1 SEE ALSO
L<HTML::Parser>

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OVERVIEW

The HTML-Parser distribution is a collection of modules that parse and extract information from HTML documents. The modules present in this collection are:

HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML &lt;entities&gt;.

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the <HEAD> section of an HTML document.

HTML::LinkExtor - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokeParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).
PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

perl Makefile.PL
make
make test
make install

REPORTING BUGS

Bug reports and issues for discussion about these modules can be sent to the <libwww@perl.org> mailing list.

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=head1 EXAMPLE

```perl
$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse(<
<title>Stupid example</title>
<base href="http://www.linpro.no/lwp/>
Normal text starts here.
EOT
undef $p;
print $h->title;  # should print "Stupid example"
```

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the I<libwww-perl> package. If you don't have that distribution installed you need to provide the $header argument to the C<HTML::HeadParser> constructor with your own object that implements the documented protocol.

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---
abstract: 'HTML parser class'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: 0
  Test::More: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: HTML-Parser
no_index:
directory:
  - t
  - inc
recommends:
  HTTP::Headers: 0
requires:
  HTML::Tagset: 3
  XSLoader: 0
  perl: 5.008
resources:
  MailingList: mailto:libwww@perl.org
  repository: http://github.com/gisle/html-parser
  version: 3.72

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=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS
use HTML::PullParser;

$p = HTML::PullParser->new(file => "index.html",
    start => 'event, tagname, @attr',
    end   => 'event, tagname',
    ignore_elements => [qw(script style)],
    ) || die "Can't open: $!";
while (my $token = $p->get_token) {
    #...do something with $token
}

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class. It basically turns the HTML::Parser inside out. You associate a file (or any IO::Handle object or string) with the parser at construction time and then repeatedly call $parser->get_token to obtain the tags and text found in the parsed document.

The following methods are provided:

=over 4
=item $p = HTML::PullParser->new( file => $file, %options )
=item $p = HTML::PullParser->new( doc => \$doc, %options )

A C<HTML::PullParser> can be made to parse from either a file or a literal document based on whether the C<file> or C<doc> option is passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and $! will tell you why it failed. Otherwise the argument is taken to be some object that the C<HTML::PullParser> can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an argspec (as defined in L<HTML::Parser>) with the events you have an interest in. For instance, if you want C<start> tokens to be reported as the string C<S> followed by the tagname and the attributes you might pass an C<start>-option like this:
$p = HTML::PullParser->new(
    doc => $document_to_parse,
    start => "S", tagname, @attr,
    end => "E", tagname,
);

At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

=item $token = $p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

=item $p->unget_token( @tokens )

If you find out you have read too many tokens you can push them back, so that they are returned again the next time $p->get_token is called.

=back

=head1 EXAMPLES

The 'eg/hform' script shows how we might parse the form section of HTML::Documents using HTML::PullParser.

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::TokeParser>

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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>
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DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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If such an object file uses only numerical parameters, data
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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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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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"`  // License name
    URL  string `json:"url,omitempty"`  // License URL
}

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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1.2902 python3-decorator 4.1.2-1

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1.2903 xstrings 1.3.1

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1.2904 x-time-rate 0.0.0-20200630173020-3af7569d3a1e

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1.2905 generex 1.0.2
1.2905.1 Available under license:

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    <developer>
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      <name>MIFRAH Youssef</name>
      <email>mifmif.com@gmail.com</email>
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    <developer>
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      <email>kolesnik.nickolay@gmail.com</email>
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    <version>7</version>
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* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/META-INF/maven/com.github.mifmif/generex/pom.xml

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1.2906 thwait 0.1.0

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1.2907 tough-cookie 2.5.0
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1.2908 gopkg.in/go-playground/validator

v9.27.0

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1.2909 govalidator 0.0.0-20200907205600-7a23bdc65eef

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1.2910 core-util-is 1.0.3

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**1.2911 golcs 0.0.0-20170316035057-ecda9a501e82**

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**1.2912 normalize-package-data 3.0.3**

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1.2913 gojsondiff 1.0.0

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## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/urfave/cli

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## ginkgo - https://github.com/onsi/ginkgo

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# gomega - https://github.com/onsi/gomega

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1.2914 slf4j-log4j 2.0.0-alpha1

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*/

Found in path(s):
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerFactory.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerAdapter.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jMDCAdapter.java

1.2915 libldap-common 2.4.45+dfsg
1ubuntu1.10
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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
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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-Mark
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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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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.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+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
",
+                         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)
+                 {
+                     display_file(pamh, "/etc/legal");
+                     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 (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)
+             {
+                 display_file(pamh, "/etc/legal");
+                 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);
+ }
+}

---

Open Source Used In SMI 2021.01.0-Jan-2022  30936
+    return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdansen@debian.org on

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1.2921 go-openapi-spec 0.19.3

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `"name":"the name","url":"the url"`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}
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package spec
// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL   string `json:"url,omitempty"
}

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1.2944 has-flag 3.0.0

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1.2945 jsonpatch 1.32

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1.2946 thanos 0.20.2

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1.2947 go-oidc 2.1.0+incompatible

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1.2949 go-reuseport 1.4.1-0.20181221084137-1f6171f327ed

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import "testing"

func TestIntegrationLicense(t *testing.T) {

license := License{Name: "the name", URL: "the url"}
const licenseJSON = `"name":"the name","url":"the url"`
const licenseYAML = "name: the name\nurl: the url"

assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}

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go

// 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"
}

1.2951 to-regex-range 5.0.1

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1.2952 libxrender 0.9.10-1

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1.2954 go-runtime 1.15.6

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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 */

package minio

import (  "bytes"  "context"  "encoding/xml"
package minio

import (
    "fmt"
    "net/http"
    "net/url"
    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// type objectLegalHold struct {
// XMLNS   string          `xml:"xmlns,attr,omitempty"
// XMLName xml.Name        `xml:"LegalHold"
// Status  LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
// type PutObjectLegalHoldOptions struct {
// VersionID string
// Status    *LegalHoldStatus
// }

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
// type GetObjectLegalHoldOptions struct {
// VersionID string
// }

// LegalHoldStatus - object legal hold status.
// type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("status cannot be nil")
    }

    // populate objectLegalHold struct with status
    obj := &objectLegalHold{
        XMLNS: "xmlns",
        XMLName: "LegalHold",
        Status: *status,
    }

    return obj, nil
}
return nil, fmt.Errorf("Status not set")
}
if !status.IsValid() {
return nil, fmt.Errorf("invalid legal hold status `%v`, status)
}
legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:    bucketName,
        objectName:    objectName,
        queryValues:   urlValues,
        contentBody:   bytes.NewReader(lhData),
        contentLength: int64(len(lhData)),
    }

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {

if resp.StatusCode != http.StatusOK {
    return nil, httpRespToErrorResponse(resp, bucketName, objectName)
}

lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

1.2969 spew 1.1.1

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1.2970 openshift-model 4.10.2

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### 1.2971 fiddle 1.0.0

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1.2976 command-not-found 18.04.5
1.2976.1 Available under license:
This package was debianized by Michael Vogt <michael.vogt@ubuntu.com> on Fri, 31 May 2005 10:10:41 +0100.

It was downloaded via bzr from
https://code.launchpad.net/~zkrynicki/command-not-found/main

The ubuntu source is at:
https://code.edge.launchpad.net/~ubuntu-core-dev/command-not-found/ubuntu

Upstream Author: Zygmunt Krynicki <zkrynicki@gmail.com>
Michael Vogt <michael.vogt@ubuntu.com>

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1.2977 llvm 6.0-1ubuntu2
1.2977.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machinein strs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right 
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                                            ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:                                            ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s
; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
; legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:

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define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpadd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:    vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT:    vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add <64 x i32> %6, %5
    %7 = add <64 x i32> %7, %6
    %8 = add <64 x i32> %8, %7
    %9 = add <64 x i32> %9, %8
    %a = load <64 x i32>, <64 x i32>* %a
    %b = load <64 x i32>, <64 x i32>* %b
    %c = load <64 x i32>, <64 x i32>* %c
    %d = load <64 x i32>, <64 x i32>* %d
    %e = load <64 x i32>, <64 x i32>* %e
    %f = load <64 x i32>, <64 x i32>* %f
    %g = load <64 x i32>, <64 x i32>* %g
    %h = load <64 x i32>, <64 x i32>* %h
    %i = load <64 x i32>, <64 x i32>* %i
    %j = load <64 x i32>, <64 x i32>* %j
    %k = load <64 x i32>, <64 x i32>* %k
    %l = load <64 x i32>, <64 x i32>* %l
    %m = load <64 x i32>, <64 x i32>* %m
    %n = load <64 x i32>, <64 x i32>* %n
    %o = load <64 x i32>, <64 x i32>* %o
    %p = load <64 x i32>, <64 x i32>* %p
    %q = load <64 x i32>, <64 x i32>* %q
    %r = load <64 x i32>, <64 x i32>* %r
    %s = load <64 x i32>, <64 x i32>* %s
    %t = load <64 x i32>, <64 x i32>* %t
    %u = load <64 x i32>, <64 x i32>* %u
    %v = load <64 x i32>, <64 x i32>* %v
    %w = load <64 x i32>, <64 x i32>* %w
    %x = load <64 x i32>, <64 x i32>* %x
    %y = load <64 x i32>, <64 x i32>* %y
    %z = load <64 x i32>, <64 x i32>* %z
    ret void
}
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)

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; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}
define void @psubus_64i8_max_512(i8* %xptr, i8* %yptr, i8* %zptr) "min-legal-vector-width"="512" {  
  ; CHECK-NEXT: psubus_64i8_max_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT: retq
  
  define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: _Z9test_charPcS_i_256:  
  ; CHECK:       # %bb.0:  
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitialize, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined

; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm1, %ymm0
; CHECK-NEXT:  vpattd %ymm1, %ymm0, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1

unde, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %9, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
  %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef,
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i8> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:  .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB11_1: # %vector.body
    ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:  vpsadbwb b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:  vpaddw %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:  addq $4, %rax
    ; CHECK-NEXT:  jne .LBB11_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1

; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1,
  i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %.lcssa = phi <16 x i32> [ %10, %vector.body ]
  %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32 12,
  %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
  %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %i32 4, %i32 5, %i32 6, %i32 7, %i32
  undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef
  %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %i32 2, %i32 3, %i32 undef, %i32
  undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef
  %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
  %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %i32 1, %i32 undef, %i32 undef, %i32
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1

; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  
; CHECK-LABEL: sbto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm1
; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: ubto16f32_512:  
  ; CHECK: # %bb.0:  
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0  
  ; CHECK-NEXT: vpsrl $31, %zmm0, %zmm0  
  ; CHECK-NEXT: vcvtddq2ps %zmm0, %zmm0  
  ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0  
  ; CHECK-NEXT: vextracti128 $1, %zmm0, %xmm0  
  ; CHECK-NEXT: vextracti128 $1, %zmm0, %xmm0  
  ; CHECK-NEXT: vpmovm2d %k0, %ymm0  
  ; CHECK-NEXT: vpsrl $31, %ymmm0, %ymmm0  
  ; CHECK-NEXT: vcvtddq2pd %ymm0, %ymm0  
  ; CHECK-NEXT: vcvtddq2pd %ymm0, %ymm0  
  ; CHECK-NEXT: vpmovaps %ymm0, (%rdi)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %l = uitofp <16 x i1> %mask to <16 x float>  
  store <16 x float> %1, <16 x float>* %res  
  ret void  
}  

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: ubto16f64_256:  
  ; CHECK: # %bb.0:  
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1  
  ; CHECK-NEXT: vpmovm2d %k1, %ymmm0  
  ; CHECK-NEXT: vpsrl $31, %ymmm0, %ymmm0  
  ; CHECK-NEXT: vcvtddq2pd %ymm0, %ymm0  
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0  
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0  
  ; CHECK-NEXT: vpmovm2d %k0, %ymmm0  
  ; CHECK-NEXT: vpsrl $31, %ymmm0, %ymmm0  
  ; CHECK-NEXT: vcvtddq2pd %ymm0, %ymm0  
  ; CHECK-NEXT: vcvtddq2pd %ymm0, %ymm0  
  ; CHECK-NEXT: vpmovaps %ymm0, 32(%rdi)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %l = uitofp <16 x i1> %mask to <16 x double>  
  store <16 x double> %1, <16 x double>* %res  
  ret void  
}
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm2[8], ymm0[8], ymm2[9], ymm0[9], ymm2[10], ymm0[10], ymm2[11], ymm0[11], ymm2[12], ymm0[12], ymm2[13], ymm0[13], ymm2[14], ymm0[14], ymm2[15], ymm0[15], ymm2[24], ymm0[24], ymm2[25], ymm0[25], ymm2[26], ymm0[26], ymm2[27], ymm0[27], ymm2[28], ymm0[28], ymm2[29], ymm0[29], ymm2[30], ymm0[30], ymm2[31], ymm0[31]

; CHECK-NEXT:    vpunpckhbw [..*++] ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]

; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm4

; CHECK-NEXT:    vmovdqa [..*++] ymm5 =

; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4

; CHECK-NEXT:    vpmullw %ymm4, %ymm0, %ymm4

; CHECK-NEXT:    vpackuswb %ymm4, %ymm0, %ymm0

; CHECK-NEXT:    vpunpckhbw [..*++] ymm2 =
ymm0[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]

; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0

; CHECK-NEXT:    vpand %ymm5, %ymm0, %ymm0

; CHECK-NEXT:    vpmullw %ymm2, %ymm2, %ymm2

; CHECK-NEXT:    vpackuswb %ymm2, %ymm2, %ymm2

; CHECK-NEXT:    vpunpckhbw [..*++] ymm3 =
ymm3[8], ymm3[9], ymm3[10], ymm3[11], ymm3[12], ymm3[13], ymm3[14], ymm3[15], ymm3[24], ymm3[25], ymm3[26], ymm3[27], ymm3[28], ymm3[29], ymm3[30], ymm3[31], ymm0[31]

; CHECK-NEXT:    vpmullw %ymm2, %ymm3, %ymm3

; CHECK-NEXT:    vpad %ymm5, %ymm2, %ymm2

; CHECK-NEXT:    vpmullw %ymm2, %ymm2, %ymm2

; CHECK-NEXT:    vpackuswb %ymm2, %ymm2, %ymm2

; CHECK-NEXT:    vpunpckhbw [..*++] ymm4 =
ymm1[8], ymm1[9], ymm1[10], ymm1[11], ymm1[12], ymm1[13], ymm1[14], ymm1[15], ymm1[16], ymm1[17], ymm1[18], ymm1[19], ymm1[20], ymm1[21], ymm1[22], ymm1[23], ymm1[24], ymm1[25], ymm1[26], ymm1[27], ymm1[28], ymm1[29], ymm1[30], ymm1[31], ymm0[31]

; CHECK-NEXT:    vpmullw %ymm4, %ymm0, %ymm0

; CHECK-NEXT:    vpand %ymm5, %ymm0, %ymm0

; CHECK-NEXT:    vpunpckhbw [..*++] ymm1 =
ymm1[0], ymm1[1], ymm1[2], ymm1[3], ymm1[4], ymm1[5], ymm1[6], ymm1[7], ymm1[16], ymm1[17], ymm1[18], ymm1[19], ymm1[20], ymm1[21], ymm1[22], ymm1[23], ymm1[24], ymm1[25], ymm1[26], ymm1[27], ymm1[28], ymm1[29], ymm1[30], ymm1[31], ymm0[31]

; CHECK-NEXT:    vpmullw %ymm3, %ymm2, %ymm2

; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)

; CHECK-NEXT:    vzeroupper

; CHECK-NEXT:    retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
define void @zext512() "min-legal-vector-width"="512" {  
 ; AVX-LABEL: 'zext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;%
 ; %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
 ; SKX256-LABEL: 'zext512'
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'zext512'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ; %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext512() "min-legal-vector-width"="512" {
 AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph:
    ; preds = %entry
    br label %while.body

  while.body:
    ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* %cgep22, %exit.2, [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i:
    ; preds = %while.body
    unreachable

  sw.bb3.i:
    ; preds = %while.body
    unreachable

  exit:
    ; preds = %while.body
  switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %.exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %.exit
%cegp22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %.entry
ret void ; preds = %.entry

attributes #0 = { nounwind optszize "target-cpu"="hexagonv55" } ; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {

call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]??] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]??] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]??] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]??] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]??] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]??] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]], 7
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %11 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
}
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```plaintext
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
```

```plaintext
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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1.2978 cast 1.3.1

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tomb - support for clean goroutine termination in Go.

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package simulator

import 
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name: "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {Key: "feature",
   Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {Key: "feature",
   Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
   },
  },
}}
type LicenseManager struct {
    mo_LICENSE_MANAGER
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            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
}
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
return body
}
body = &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
    license := &m.Licenses[i]
    if req.LicenseKey != license.LicenseKey {
        continue
    }
    body.Res = new(types.UpdateLicenseLabelResponse)
    for j := range license.Labels {
        label := &license.Labels[j]
        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
            } else {
                label.Value = req.LabelValue
            }
        return body
    }
    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })
    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}
func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }
    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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- Copy files to and from Containers in a cluster

## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster
Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>::<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>::<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

```
- `<pod-namespace>/<pod-name>:<path>`
```

```
```bash
the tool cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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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"
}

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin    string
    Option    string
    Severity  string // 'deprecated', 'removed', or 'unsupported'
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)
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1.2997 ruby-minitest 5.10.3-1

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= minitest/{test.spec.mock.benchmark}

home :: https://github.com/seattlerb/minitest
== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

I MUST say that minitest is *very* readable / understandable
compared to the 'other two' options we looked at. Nicely done and
thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec
expectations.

minitest/benchmark is an awesome way to assert the performance of your
algorithms in a repeatable manner. Now you can assert that your newb
coworker doesn't replace your linear algorithm with an exponential
one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub)
object framework.

minitest/pride shows pride in testing and adds coloring to your test
output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language
implementors that need a minimal set of methods to bootstrap a working
test suite. For example, there is no magic involved for test-case
discovery.

"Again, I can't praise enough the idea of a testing/specing
framework that I can actually read in full in one sitting!"
Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like:
classes, modules, inheritance, methods. This means you only have to
learn ruby to use minitest and all of your regular OO practices like
extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

```ruby
=== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"
```
class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"
    end
  end

  describe "when asked about blending possibilities" do
    it "won't say no" do
      @meme.will_it_blend?.wont_match /^no/i
    end
  end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.
# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV['BENCH']
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

===Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."
class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".
Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

.............................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help          Display this help.
  -s, --seed SEED     Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose       Verbose. Show progress processing files.
  -n, --name PATTERN  Filter run on /regexp/ or string.
  -e, --exclude PATTERN Exclude /regexp/ or string from run.
```
Known extensions: pride, autotest
   -p, --pride  Pride. Show your testing pride!
   -a, --autotest  Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <tt><<</tt>. 

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start  :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report  :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:
module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
  def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

outputs a failure:
1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

```ruby
=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end
```

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end
```

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.
Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>`)? If so, in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>` to your Gemfile and run `+bundle+`. Once it's installed, you should be able to require minitest and run your tests.

Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

Developing Minitest:

Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform. Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
# encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"blah blah blah\".
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above
will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

```ruby
=== Minitest's own tests require GNU (or similar) diff.
```

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_long
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
   Expected: "--- expected
   +++ actual
   @ @ -1 +1
   \"hahahahahahahahahahahahahahahahahahahaha\n+"blahblahblahblahblahblahblahblahblah\nActual: \"blahblahblahblahblahblahblahblah\"

5) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
   Expected: "No visible difference in the Hash#inspect output. You should look at the implementation of #== on Hash or its members."
   Actual: "{1=>#<Object:0xXXXXXX>}"  
   Actual: "{1=>#<Object:0x0000003ba0470>}"  

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Widnows. If you don't, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:

```
diff (GNU diffutils) 2.8.1
```

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

```ruby
== Known Extensions:
```

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and
Minitest::Spec expectations (e.g. 
<tt>page.must_have_content("Title")</tt>).

color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.

minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.
   E.g. <tt>it "requires JS driver", js: true do</tt> & <tt>ruby test.rb --tag js</tt> runs tests tagged :js.

minispec-rails :: Minimal support to use Spec style in Rails 5+.

minitest-around :: Around block for minitest. An alternative to setup/teardown dance.

minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.

minitest-autotest :: autotest is a continuous testing facility meant to be used during development.

minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.

minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.

minitest-bisect :: Helps you isolate and debug random test failures.

minitest-blink1_reporter :: Display test results with a Blink1.

minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.

minitest-capybara :: Capybara matchers support for minitest unit and spec.

minitest-chef-handler :: Run Minitest suites as Chef report handlers

minitest-ci :: CI reporter plugin for Minitest.

minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.

minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.

minitest-display :: Patches Minitest to allow for an easily configurable output.

minitest-documentation :: Minimal documentation format inspired by rspec's.

minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.

minitest-emoji :: Print out emoji for your test passes, fails, and skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.
minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.
minitest-great_expectations :: Generally useful additions to minitest’s assertions and expectations.
minitest-growl :: Test notifier for minitest via growl.
minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
minitest-hooks :: Around and before_all/after_all/around_all hooks
minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages.
                  Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec
subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install
the gem, and then requiring "minitest/autorun" should automatically
pull it in. If not, you'll need to do it yourself:

    gem "minitest"     # ensures you"re using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0
packages their own gems. They install a gem specification file, but
don't install the gem contents in the gem path. This messes up
Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1176326078_1624685507.32/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/README.rdoc
No license file was found, but licenses were detected in source scan.

# more details.

Found in path(s):
* /opt/cola/permits/1176326078_1624685507.32/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/lib/minitest/benchmark.rb

1.2998 opencensus 0.22.4

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.3016 jackson-xc 2.9.10

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1.3018 man-db 2.8.3 2ubuntu0.1
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AC_DEFUN([gl_CANONICALIZE_LGPL],
[
  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  AC_DEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
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1.3020 python3-itsdangerous 0.24+dfsg1-2

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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/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/Version.java
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  jar/org/apache/xerces/dom/EntityImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
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Create a new `<code>LSParser</code>`. The newly constructed parser may then be configured by means of its `<code>DOMConfiguration</code>` object, and used to parse documents by means of its `<code>parse</code>` method.

- **@param mode** The `<code>mode</code>` argument is either `<code>MODE_SYNCHRONOUS</code>` or `<code>MODE_ASYNCHRONOUS</code>`, if `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in synchronous mode, if it's `<code>MODE_ASYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in asynchronous mode.

- **@param schemaType** An absolute URI representing the type of the schema language used during the load of a `<code>Document</code>` using the newly created `<code>LSParser</code>`. Note that no lexical checking is done on the absolute URI. In order to create a `<code>LSParser</code>` for any kind of schema types (i.e. the `<code>LSParser</code>` will be free to use any schema found), use the value `<code>null</code>`.

- `<p>` Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>] and XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>], applications must use the value `<code>http://www.w3.org/2001/XMLSchema</code>`. For other schema languages, applications must use the value `<code>http://www.w3.org/TR/REC-xml</code>`. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

- **@return** The newly created `<code>LSParser</code>` object. This `<code>LSParser</code>` is either synchronous or asynchronous depending on the value of the `<code>mode</code>` argument.

- `<p>` Note: By default, the newly created `<code>LSParser</code>` does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of the '"error-handler" configuration parameter is `<code>null</code>`.

- `<p>` However, implementations may provide a default error handler at creation time. In that case, the initial value of the '"error-handler" configuration parameter on the new created `<code>LSParser</code>` contains a reference to the default error handler.

- **@exception DOMException** NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/SAXParserImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/ValueStore.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributesImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/IXSNamespaceItem.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/IXSImplementationImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
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jar/org/apache/xerces/impl/dv/xx/TimeDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xx/DayDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xx/DateTimeDV.java
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jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ChildNode.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dom/DocumentFragmentImpl.java
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jar/org/apache/xml/serialize/EncodingInfo.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
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jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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jar/org/apache/xerces/impl/xs/XSDDescription.java
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  jar/org/apache/xerces/impl/io/UTF8Reader.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DTDGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/WMLTableElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLinkElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
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jar/org/apache/xerces/xpointer/XPointerFactory.java
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jar/org/apache/xerces/xpointer/XPointerProcessor.java
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jar/org/apache/xerces/util/EntityResolver2Wrapper.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
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jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
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jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLSymbols.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/SecuritySupport.java

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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar.org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar.org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar.org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar.org/apache/wml/WMLElement.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar.org/apache/wml/WMLElement.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLFieldsetElement.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactory.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/sax/SAXParser.java

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  jar/org/w3c/dom/html/HTMLDOMImplementation.java

1.3030 tracer 0.1.0
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import: ../../../../fossene/db/schema/thing.yml
fields:
    site: string
    author: root

1.3033 prometheus 1.8.2-0.20200911110723-e83ef207b6c2

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//
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    URL  string `json:"url, omitempty"
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.3046 camelcase 6.2.1

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1.3047 google-auth 2.0.2

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1.3048 pythonpipwhl 9.0.1-2.3~ubuntu1.18.04.4
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validation/internal/util/ConcurrentReferenceHashMap.java
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/*
 * Hibernate Validator, declare and validate application constraints
 *
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 */

/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 * @param executable The executable of interest.
 * @return A list with parameter meta data for the given executable.
 */

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 */

/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

/*
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [%link java.validation.ParameterNameProvider]. By default, [%code arg0], [%code arg1] etc.
 * will be used as parameter names.
 */

/*
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 */

<pre>
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
</pre>

/*
 * Can be specified on any method or constructor.
 */

/*
 * @author Gunnar Morling
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate-validator/constraints/ParameterScriptAssert.java
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*/
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraints/ModCheck.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/InterpolationTerm.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/path/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/ScriptAssert.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/ConstraintDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/ValidatorFactoryImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/LuhnCheckValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/PESELValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/PatternValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintTree.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/ValidatorFactoryImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/ConstraintValidatorConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/AssertFalseValidator.java
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1.3070 locate-path 6.0.0

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1.3071 utils 0.0.0-20200411171748-3d5a2fe318e4

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
1.3080 tcp-dump 4.9.3 0ubuntu0.18.04.1
1.3080.1 Available under license : licenses/BSD

License: BSD

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```
1.3081 gophercloud 0.15.0

1.3081.1 Available under license:

    package RESOURCE

    import {
        "github.com/gophercloud/gophercloud"
        "github.com/gophercloud/gophercloud/pagination"
    }

    // RESOURCE represents...
    type Resource struct {
    }

    type commonResult struct {
        gophercloud.Result
    }

    // GetResult is the response from a Get operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type GetResult struct {
        commonResult
    }

    // CreateResult is the response from a Create operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type CreateResult struct {
        commonResult
    }

    // DeleteResult is the response from a Delete operation. Call its ExtractErr to
    // determine if the request succeeded or failed.
    type DeleteResult struct {
        gophercloud.ErrResult
    }

    // UpdateResult is the result of an Update request. Call its Extract method to
    // interpret it as a RESOURCE.
    type UpdateResult struct {
        commonResult
    }
// ResourcePage is a single page of RESOURCE results.
// 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:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
```
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

### Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. **Travis-CI** will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. **Coveralls** will run a coverage test.
3. [**OpenLab**](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.
There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.
Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
  "fmt"  
  "net/http"  
  "testing"

  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
  th "github.com/gophercloud/gophercloud/testhelper"  
  "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
{
}  
`

// GetResult provides a Get result.
const GetResult = `  
{
}  
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `  
{
}  
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `  
{
}  
`

// UpdateResult provides an update result.
const UpdateResult = `  
{
}  
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }  

// SecondResource is the second resource in the List request.
```
}
var SecondResource = resources.Resource

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = [resources.Resource{FirstResource, SecondResource}]

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package 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.Assert(t, count == ExpectedPageCount)
    th.Assert(t, err == nil)
}
func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)
}

// Example: TestLeafResources
func TestLeafResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleLeafResourcesSuccessfully(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 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)
                    return true, nil
                }
res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
deferr 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"
"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) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    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
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    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.
funtion (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
funtion Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b := opts.ToResourceUpdateMap()
    if err := b nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    if err = gophercloud.ParseResponse(resp, err) {
        r.Err = err
        return
    }
}

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 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.
/

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 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.

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

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.
The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.
Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
```
ID    string   `json:"id"`
Name  string   `json:"name"`
AdminStateUp bool     `json:"admin_state_up"`
Status string   `json:"status"`
Subnets []string `json:"subnets"`
TenantID string   `json:"tenant_id"`
Shared  bool     `json:"shared"`

```
to look like
```
```go
type Network struct {
    ID        string   `json:"id"`
    Name      string   `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status    string   `json:"status"`
    Subnets   []string `json:"subnets"`
    TenantID  string   `json:"tenant_id"`
    Shared    bool     `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of
'availability_zone_hints' in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that 'availability_zone_hints' is indeed part of the 'Network' object and that its type is a list of strings ('[]string').

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed
When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.3082 rsa 4.8

#### 1.3082.1 Available under license:

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c22bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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 <xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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 <xsl:variable name="isc.copyright.text">
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1.3086 python3-decorator 4.1.2-1
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1.3087 gooleapis-gnostic 0.0.0-20170729233727-0c5108395e2d

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1.3088 python-pam libpam-modules_1.1.8-3.6ubuntu2

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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.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+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)
+            {
+                display_file(pamh, "/etc/legal`);  
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            goto finished;
+            gotofinished:
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal`);  
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            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)
+            {
+                display_file(pamh, "/etc/legal`);  
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            goto finished;
+            goto finished;
+        }
+    }
+}

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    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);
    
    _pam_drop(flag);
    
    return retval;
    }
    
    PAM_EXTERN
    int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
        "Display the updated motd */
            display_file(pamh, motd_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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1.3089 cloud-image-utils 0.30-0ubuntu5

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5caff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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1.3098 balanced-match 1.0.0

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1.3099 safe-buffer 5.2.1

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1.3100 x-net 0.0.0-20210226172049-e18ecbb05110

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1.3102 utils v0.0.0-20201110183641-67b214c5f920

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1.3110 extsprintf 1.3.0

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1.3118 jinja2 3.0.3

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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
disable_subclassing_any = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_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
warnUnused_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/1238552943_1638973281.87/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg

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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 %}

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------

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Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
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- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1238552943_1638973281.87/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO
* /opt/cola/permits/1238552943_1638973281.87/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

1.3119 kubernetes-cliruntime 0.18.4
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1.3120 libvorbis 1.3.5 4.2

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1.3121 pinentry-curses 1.1.0-1

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1.3143 golang-org-x-time v0.0.0-20190308202827-9d24e82272b4

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1.3144 go-systemd 0.0.0-20190719114852-fd7a80b32e1f

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1.3146 protobuf 1.22.0

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1.3156 pam 1.1.8-3.6ubuntu2.18.04.3

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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.ubuntu/modules/pam_motd/pam_motd.c

```c
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)) {
                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;
```

---

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+ if (stat(flag, &s) != 0)
+ {
+     display_file(pamh, "/etc/legal");
+     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;
+
+ PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_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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1.3157 sanitized-anchor-name 1.0.0

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1.3158 net-snmp 5.7.3+dfsg-1.8ubuntu3.6

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SCOWL (Spell Checker Oriented Word Lists) is a collection of English word lists maintained by Kevin Atkinson <kevina@users.sourceforge.net>

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The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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My VARCON package was used to create the American, British, and Canadian word list.
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Jean-loup Gailly    Mark Adler
jloup@gzip.org      madler@alumni.caltech.edu

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Ackeret, Matt
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Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
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Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fry singer, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
1.3167 go-rootcerts 1.0.1

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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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when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Jan Holmberg, <jan@artech.net> :
  o Memory framework
  o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
  o MISC checker redesign
  o Scheduler framework extension to support child process handling.
  o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
  o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
  o Extended VRRP framework to support floating priority.

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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.
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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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This package contains a modified version of ca-bundle.crt:

time: 2011-11-03 19:04:19

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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History
------

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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1.3184 go-runtime 1.14.4

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name
url: the url"

assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.3199 python-pyasn1-modules 0.2.1-0.2

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1.3201 commons-daemon 1.2.4

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1.3202 diffutils 3.6-1

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"
"@(#)queue.3 8.2 (Berkeley) 1/24/94
"$FreeBSD$
"Dd May 13, 2011
"Dt QUEUE 3
"Os
"Sh NAME
"Nm SLIST_EMPTY ,
"Nm SLIST_ENTRY ,
"Nm SLIST_FIRST ,
"Nm SLIST_FOREACH ,
Nd implementations of singly-linked lists, singly-linked tail queues, lists and tail queues

Sh SYNOPSIS
In sys/queue.h

\"  
.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_HEAD "HEADNAME" "TYPE"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INIT "SLIST_HEAD *head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_HEAD "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "TYPE *elm" "TYPE" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
\"  
.Fn STAILQ_CONCAT "STAILQ_HEAD *head1" "STAILQ_HEAD *head2"
.Fn STAILQ_EMPTY "STAILQ_HEAD *head"
.Fn STAILQ_ENTRY "TYPE"
.Fn STAILQ_FIRST "STAILQ_HEAD *head"
.Fn STAILQ_FOREACH "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
.Fn STAILQ_FOREACH_SAFE "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn STAILQ_HEAD "HEADNAME" "TYPE"
.Fn STAILQ_HEAD_INITIALIZER "STAILQ_HEAD head"
.Fn STAILQ_INIT "STAILQ_HEAD *head"
.Fn STAILQ_INSERT_AFTER "STAILQ_HEAD *head" "TYPE *listelm" "TYPE *elm" "STAILQ_ENTRY NAME"
Fn STAILQ_INSERT_HEAD "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
Fn STAILQ_INSERT_TAIL "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
Fn STAILQ_LAST "STAILQ_HEAD *head" "TYPE" "STAILQ_ENTRY NAME"
Fn STAILQ_NEXT "TYPE *elm" "STAILQ_ENTRY NAME"
Fn STAILQ_REMOVE_AFTER "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
Fn STAILQ_REMOVE_HEAD "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
Fn STAILQ_REMOVE "STAILQ_HEAD *head" "TYPE *elm" "TYPE" "STAILQ_ENTRY NAME"
Fn STAILQ_SWAP "STAILQ_HEAD *head1" "STAILQ_HEAD *head2" "STAILQ_ENTRY NAME" \n
Fn LIST_EMPTY "LIST_HEAD *head"
Fn LIST_ENTRY "TYPE"
Fn LIST_FIRST "LIST_HEAD *head"
Fn LIST_FOREACH "TYPE *var" "LIST_HEAD *head" "LIST_ENTRY NAME"
Fn LIST_FOREACH_SAFE "TYPE *var" "LIST_HEAD *head" "LIST_ENTRY NAME" "TYPE *temp_var"
Fn LIST_HEAD "HEADNAME" "TYPE"
Fn LIST_HEAD_INITIALIZER "LIST_HEAD head"
Fn LIST_INIT "LIST_HEAD *head"
Fn LIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "LIST_ENTRY NAME"
Fn LIST_INSERT_BEFORE "TYPE *listelm" "TYPE *elm" "LIST_ENTRY NAME"
Fn LIST_INSERT_HEAD "LIST_HEAD *head" "TYPE *elm" "LIST_ENTRY NAME"
Fn LIST_NEXT "TYPE *elm" "LIST_ENTRY NAME"
Fn LIST_REMOVE "TYPE *elm" "LIST_ENTRY NAME"
Fn LIST_SWAP "LIST_HEAD *head1" "LIST_HEAD *head2" "TYPE" "LIST_ENTRY NAME" \n
Fn TAILQ_CONCAT "TAILQ_HEAD *head1" "TAILQ_HEAD *head2" "TAILQ_ENTRY NAME"
Fn TAILQ_EMPTY "TAILQ_HEAD *head"
Fn TAILQ_ENTRY "TYPE"
Fn TAILQ_FIRST "TAILQ_HEAD *head"
Fn TAILQ_FOREACH "TYPE *var" "TAILQ_HEAD *head" "TAILQ_ENTRY NAME"
Fn TAILQ_FOREACH_SAFE "TYPE *var" "TAILQ_HEAD *head" "TAILQ_ENTRY NAME" "TYPE *temp_var"
Fn TAILQ_FOREACH_REVERSE "TYPE *var" "TAILQ_HEAD *head" "HEADNAME" "TAILQ_ENTRY NAME"
Fn TAILQ_FOREACH_REVERSE_SAFE "TYPE *var" "TAILQ_HEAD *head" "HEADNAME" "TAILQ_ENTRY NAME" "TYPE *temp_var"
Fn TAILQ_HEAD "HEADNAME" "TYPE"
Fn TAILQ_HEAD_INITIALIZER "TAILQ_HEAD head"
Fn TAILQ_INIT "TAILQ_HEAD *head"
Fn TAILQ_INSERT_AFTER "TAILQ_HEAD *head" "TYPE *listelm" "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_INSERT_BEFORE "TYPE *listelm" "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_INSERT_HEAD "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_INSERT_TAIL "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_LAST "TAILQ_HEAD *head" "HEADNAME"
Fn TAILQ_NEXT "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_PREV "TYPE *elm" "HEADNAME" "TAILQ_ENTRY NAME"
Fn TAILQ_REMOVE "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
Fn TAILQ_SWAP "TAILQ_HEAD *head1" "TAILQ_HEAD *head2" "TYPE" "TAILQ_ENTRY NAME" \n
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These macros define and operate on four types of data structures: singly-linked lists, singly-linked tail queues, lists, and tail queues. All four structures support the following functionality:

- **Insertion of a new entry at the head of the list.**
- **Insertion of a new entry after any element in the list.**
- **O(1) removal of an entry from the head of the list.**
- **Forward traversal through the list.**
- **Swapping the contents of two lists.**

Singly-linked lists are the simplest of the four data structures and support only the above functionality. Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue. Singly-linked lists add the following functionality:

- **O(n) removal of any entry in the list.**

Singly-linked tail queues add the following functionality:

- **Entries can be added at the end of a list.**
- **O(n) removal of any entry in the list.**
- **They may be concatenated.**

However:

- **All list insertions must specify the head of the list.**
- **Each head entry requires two pointers rather than one.**
- **Code size is about 15% greater and operations run about 20% slower than singly-linked lists.**
Singly-linked tailqs are ideal for applications with large datasets and few or no removals, or for implementing a FIFO queue.

All doubly linked types of data structures (lists and tail queues) additionally allow:
- Insertion of a new entry before any element in the list.
- O(1) removal of any entry in the list.

However:
- Each element requires two pointers rather than one.
- Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.

Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.

Tail queues add the following functionality:
- Entries can be added at the end of a list.
- They may be traversed backwards, from tail to head.
- They may be concatenated.

However:
- All list insertions and removals must specify the head of the list.
- Each head entry requires two pointers rather than one.
- Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

In the macro definitions, TYPE is the name of a user defined structure, that must contain a field of type
The argument \texttt{HEADNAME} is the name of a user defined structure that must be declared using the macros
\texttt{SLIST\_HEAD},
\texttt{STAILQ\_HEAD},
\texttt{LIST\_HEAD},
or
\texttt{TAILQ\_HEAD}.
See the examples below for further explanation of how these macros are used.

\section*{Singly-Linked Lists}

A singly-linked list is headed by a structure defined by the

\texttt{SLIST\_HEAD} macro.

This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of \textit{O}(n) removal for arbitrary elements.

New elements can be added to the list after an existing element or at the head of the list.
An

\texttt{SLIST\_HEAD} structure is declared as follows:

\begin{verbatim}
SLIST\_HEAD(HEADNAME, TYPE) head;
\end{verbatim}

where

\texttt{HEADNAME} is the name of the structure to be defined, and

\texttt{TYPE} is the type of the elements to be linked into the list.

A pointer to the head of the list can later be declared as:

\begin{verbatim}
struct HEADNAME *headp;
\end{verbatim}
The macro \texttt{SLIST\_HEAD\_INITIALIZER} evaluates to an initializer for the list \texttt{head}.

The macro \texttt{SLIST\_EMPTY} evaluates to true if there are no elements in the list.

The macro \texttt{SLIST\_ENTRY} declares a structure that connects the elements in the list.

The macro \texttt{SLIST\_FIRST} returns the first element in the list or NULL if the list is empty.

The macro \texttt{SLIST\_FOREACH} traverses the list referenced by \texttt{head} in the forward direction, assigning each element in turn to \texttt{var}.

The macro \texttt{SLIST\_FOREACH\_SAFE} traverses the list referenced by \texttt{head} in the forward direction, assigning each element in turn to \texttt{var}.

However, unlike \texttt{SLIST\_FOREACH} here it is permitted to both remove \texttt{var} as well as free it from within the loop safely without interfering with the traversal.

The macro \texttt{SLIST\_INIT} initializes the list referenced by \texttt{head}. 

The macro
.Nm SLIST_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the list.
.Pp
The macro
.Nm SLIST_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm .
.Pp
The macro
.Nm SLIST_NEXT
returns the next element in the list.
.Pp
The macro
.Nm SLIST_REMOVE_AFTER
removes the element after
.Fa elm
from the list. Unlike
.Fa SLIST_REMOVE ,
this macro does not traverse the entire list.
.Pp
The macro
.Nm SLIST_REMOVE_HEAD
removes the element
.Fa elm
from the head of the list.
For optimum efficiency,
elements being removed from the head of the list should explicitly use
this macro instead of the generic
.Fa SLIST_REMOVE
macro.
.Pp
The macro
.Nm SLIST_REMOVE
removes the element
.Fa elm
from the list.
.Pp
The macro
.Nm SLIST_SWAP
swaps the contents of
.Fa head1
and
.Fa head2 .
Singly-Linked List Example

```
SLIST_HEAD(slisthead, entry) head =
    SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp; /* Singly-linked List head. */
struct entry {
    ...
    SLIST_ENTRY(entry) entries; /* Singly-linked List. */
    ...
} *n1, *n2, *n3, *np;

SLIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);

SLIST_REMOVE(&head, n2, entry, entries); /* Deletion. */
free(n2);

n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries); /* Deletion from the head. */
free(n3);
/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    SLIST_REMOVE(&head, np, entry, entries);
    free(np);
}

while (!SLIST_EMPTY(&head)) {
    /* List Deletion. */
    n1 = SLIST_FIRST(&head);
    SLIST_REMOVE_HEAD(&head, entries);
    free(n1);
}
```

Singly-Linked Tail Queues

A singly-linked tail queue is headed by a structure defined by the
STAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are singly linked for minimum space and pointer
manipulation overhead at the expense of O(n) removal for arbitrary
elements.
New elements can be added to the tail queue after an existing element,
at the head of the tail queue, or at the end of the tail queue.
A
.Fa STAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
STAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Ed
.Pp
where
.Li HEADNAME
is the name of the structure to be defined, and
.Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
.Ed
.Pp
(The names
.Li head
and
.Li headp
are user selectable.)
.Pp
The macro
.Nm STAILQ_HEAD_INITIALIZER
evaluates to an initializer for the tail queue
.Fa head .
.Pp
The macro
.Nm STAILQ_CONCAT
concatenates the tail queue headed by
.Fa head2
onto the end of the one headed by
.Fa head1
removing all entries from the former.
.Pp
The macro
.Nm STAILQ_EMPTY
evaluates to true if there are no items on the tail queue.
.Pp
The macro
.Nm STAILQ_ENTRY
declares a structure that connects the elements in
the tail queue.

The macro

returns the first item on the tail queue or NULL if the tail queue
is empty.

The macro

traverses the tail queue referenced by
in the forward direction, assigning each element
in turn to

However, unlike

here it is permitted to both remove
as well as free it from within the loop safely without interfering with the
traversal.

The macro

initializes the tail queue referenced by

The macro

inserts the new element
at the head of the tail queue.

The macro

inserts the new element
at the end of the tail queue.
The macro

```bash
STAILQ_INSERT_AFTER
```

inserts the new element
```
STAILQ_LAST
```

returns the last item on the tail queue.
If the tail queue is empty the return value is
```
STAILQ_NEXT
```

returns the next item on the tail queue, or NULL this item is the last.
```
STAILQ_REMOVE_AFTER
```

removes the element after
```
STAILQ_REMOVE
```

removes the element from the tail queue. Unlike
```
STAILQ_SWAP
```

swaps the contents of
```
STAILQ_REMOVE
```

removes the element from the tail queue.
For optimum efficiency,
elements being removed from the head of the tail queue should
use this macro explicitly rather than the generic
```
STAILQ_REMOVE
```

removes the element
```
STAILQ_SWAP
```

swaps the contents of
```
STAILQ_REMOVE
```

removes the element
```
STAILQ_SWAP
```

swaps the contents of
```
head1
```

and
```
head2
```

SINGLY-LINKED TAIL QUEUE EXAMPLE

```bash
STAILQ_HEAD(stailhead, entry) head =
```
STAILQ_HEAD_INITIALIZER(head);
struct stailhead *headp;/* Singly-linked tail queue head. */
struct entry {

...}
STAILQ_ENTRY(entry) entries;/* Tail queue. */
...
} *n1, *n2, *n3, *np;

STAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);
/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);
/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);
/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)

np-> ...}
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
STAILQ_REMOVE(&head, np, entry, entries);
free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {

n1 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n1);
}
/* Faster TailQ Deletion. */
n1 = STAILQ_FIRST(&head);
while (n1 != NULL) {

n2 = STAILQ_NEXT(n1, entries);
free(n1);
n1 = n2;
}
STAILQ_INIT(&head);
.Ed
.Ed
.Sh LISTS
A list is headed by a structure defined by the
.Nm LIST_HEAD
macro.
This structure contains a single pointer to the first element
on the list.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the list.
New elements can be added to the list after an existing element,
before an existing element, or at the head of the list.
A
.Ed
.Sh LIST_HEAD
structure is declared as follows:
.Bd -literal -offset indent
LIST_HEAD(HEADNAME, TYPE) head;
.Ed
.Ed
.Ed
.Pp
where
.Ed
.Ed
.Ed
.Pp
(HEADNAME
is the name of the structure to be defined, and
 TYPE
is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:
.Ed
.Ed
.Ed
.Pp
(struct HEADNAME *headp;
.Ed
.Ed
.Ed
.Pp
(The names
.head
and
.headp
are user selectable.)
.Ed
.Ed
.Ed
.Pp
The macro
.Ed
.Ed
.Ed
.Pp
LIST_HEAD_INITIALIZER
evaluates to an initializer for the list
.Ed
.Ed
.Ed
.Pp
The macro
.Ed
.Ed
.Ed
.Pp
LIST_EMPTY
evaluates to true if there are no elements in the list.
.Ed
.Ed
.Ed
.Pp
The macro
.Ed
.Ed
.Ed
.Pp
LIST_ENTRY
declares a structure that connects the elements in
the list.
The macro

\texttt{LIST\_FIRST}

returns the first element in the list or NULL if the list is empty.

The macro

\texttt{LIST\_FOREACH}

traverses the list referenced by \texttt{head} in the forward direction, assigning each element in turn to \texttt{var}.

The macro

\texttt{LIST\_FOREACH\_SAFE}

traverses the list referenced by \texttt{head} in the forward direction, assigning each element in turn to \texttt{var}. However, unlike \texttt{LIST\_FOREACH} here it is permitted to both remove \texttt{var} as well as free it from within the loop safely without interfering with the traversal.

The macro

\texttt{LIST\_INIT}

initializes the list referenced by \texttt{head}.

The macro

\texttt{LIST\_INSERT\_HEAD}

inserts the new element \texttt{elm} at the head of the list.

The macro

\texttt{LIST\_INSERT\_AFTER}

inserts the new element \texttt{elm} after the element \texttt{listelm}.

The macro

\texttt{LIST\_INSERT\_BEFORE}

inserts the new element \texttt{elm}
The macro \texttt{LIST\_NEXT} returns the next element in the list, or NULL if this is the last.

The macro \texttt{LIST\_REMOVE} removes the element \texttt{elm} from the list.

The macro \texttt{LIST\_SWAP} swaps the contents of \texttt{head1} and \texttt{head2}.

\section*{LIST EXAMPLE}
\begin{verbatim}
LIST_HEAD(listhead, entry) head =
    LIST_HEAD_INITIALIZER(head);
struct listhead *headp;/* List head. */
struct entry {
    ...
    LIST\_ENTRY(entry) entries;/* List. */
    ...
}*n1, *n2, *n3, *np, *np_temp;
LIST\_INIT(&head);/* Initialize the list. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
LIST\_INSERT\_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
LIST\_INSERT\_AFTER(n1, n2, entries);

n3 = malloc(sizeof(struct entry));/* Insert before. */
LIST\_INSERT\_BEFORE(n2, n3, entries);

LIST\_REMOVE(n2, entries);/* Deletion. */
free(n2);
/* Forward traversal. */
LIST\_FOREACH(np, &head, entries)
    np-> ...

/* Safe forward traversal. */
\end{verbatim}
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    LIST_REMOVE(np, entries);
    free(np);
}

while (!LIST_EMPTY(&head)) { /* List Deletion. */
    n1 = LIST_FIRST(&head);
    LIST_REMOVE(n1, entries);
    free(n1);
}

n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
    n2 = LIST_NEXT(n1, entries);
    free(n1);
    n1 = n2;
} 
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where
.Li HEADNAME
is the name of the structure to be defined, and
.Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
(The names
.head
and
.headp
are user selectable.)

The macro

 evaluates to an initializer for the tail queue
.head

The macro

 concatenates the tail queue headed by
.head2
onto the end of the one headed by
.head1
removing all entries from the former.

The macro

 evaluates to true if there are no items on the tail queue.

The macro

 declares a structure that connects the elements in
the tail queue.

The macro

 returns the first item on the tail queue or NULL if the tail queue
is empty.

The macro

 traverses the tail queue referenced by
.head
in the forward direction, assigning each element in turn to
.var
.var
is set to
.NULL
if the loop completes normally, or if there were no elements.

The macro


traverses the tail queue referenced by
.Fa head
in the reverse direction, assigning each element in turn to
.Fa var.
.Pp
The macros
.Nm TAILQ_FOREACH_SAFE
and
.Nm TAILQ_FOREACH_REVERSE_SAFE
traverse the list referenced by
.Fa head
in the forward or reverse direction respectively,
assigning each element in turn to
.Fa var.
However, unlike their unsafe counterparts,
.Nm TAILQ_FOREACH
and
.Nm TAILQ_FOREACH_REVERSE
permit to both remove
.Fa var
as well as free it from within the loop safely without interfering with the
traversal.
.Pp
The macro
.Nm TAILQ_INIT
initializes the tail queue referenced by
.Fa head.
.Pp
The macro
.Nm TAILQ_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the tail queue.
.Pp
The macro
.Nm TAILQ_INSERT_TAIL
inserts the new element
.Fa elm
at the end of the tail queue.
.Pp
The macro
.Nm TAILQ_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm.
.Pp
The macro
inserts the new element before the element.

The macro

returns the last item on the tail queue.
If the tail queue is empty the return value is NULL.

The macro

returns the next item on the tail queue, or NULL if this item is the last.

The macro

returns the previous item on the tail queue, or NULL if this item is the first.

The macro

removes the element from the tail queue.

The macro

swaps the contents of and.

The macro

Tail queue example

```
TAILQ_HEAD(tailhead, entry) head =
    TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp;/* Tail queue head. */
struct entry {
    ...
TAILQ_ENTRY(entry) entries;/* Tail queue. */
    ...
} *n1, *n2, *n3, *np;

TAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);
```
n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry));/* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries);/* Deletion. */
free(n2);
/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
TAILQ_REMOVE(&head, np, entries);
    free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
    np-> ...
/* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
    n1 = TAILQ_FIRST(&head);
    TAILQ_REMOVE(&head, n1, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
n1 = TAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = TAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
TAILQ_INIT(&head);
.Ed
.Sh SEE ALSO
.Xr tree 3
.Sh HISTORY
The
.Nm queue
functions first appeared in
.Bx 4.4 .
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-- Keir Fraser (on behalf of the Xen team)

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Gocheck - A rich testing framework for Go

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1.3220 ply 3.11

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides very extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for “real” programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
PLY consists of two files: lex.py and yacc.py. These are contained within the ‘ply’ directory which may also be used as a Python package. To use PLY, simply copy the ‘ply’ directory to your project and import lex and yacc from the associated ‘ply’ package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
=========  
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers: Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply
An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator
with variables.

```python
# calc.py
#
# A simple calculator with variables.
#
tokens = (  
    'NAME', 'NUMBER',  
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',  
    'LPAREN', 'RPAREN',
)

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'  
t_TIMES   = r'\*'  
t_DIVIDE  = r'/'  
t_EQUALS  = r'='
```

t_LPAREN = r'('  
\t_RPAREN = r')'  
\t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]\*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
\t_ignore = " \
"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (  
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),  
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    "statement : NAME EQUALS expression"
    names[p[1]] = p[3]

def p_statement_expr(p):
    "statement : expression"
    print(p[1])

def p_expression_binop(p):
    ""expression : expression PLUS expression  
                  | expression MINUS expression  
                  | expression TIMES expression  
                  | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name "'"%s"' % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at "'"%s"' % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.3235 go-spew v1.1.1

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1.3242 minipass-pipeline 1.2.4

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1.3246 lsof 4.89+dfsg-0.1

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Comment: The following changes were made to the upstream tarball:
1.) The directory dialects/uw was removed for being non-DFSG
and not needed in Debian.
2.) The main source was a tarball within a tarball. Only the innermost
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go get go.uber.org/tools/update-license
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Configurable modular Prometheus exporter for various node metrics.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.3273 hodgesds-perf-utils 0.0.7

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.
Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType('room', Integer().subtype(
      implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    ),
    DefaultedNamedType('house', Integer(0).subtype(
      implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    ),
  )
)
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python ‘dict’, ‘SET OF’ to ‘list’):
```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```  
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```  
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
```  
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:  

```python
```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453>_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_, or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:
* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-----------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

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.. toctree::
   :maxdepth: 2
Use case
--------

.. toctree::
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/example-use-case

Download & Install
------------------

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Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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/changelog

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Getting help
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Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* "ASN.1 - Communication between heterogeneous systems" by Olivier Dubuisson
* "ASN.1 Complete" by Prof John Larmouth

Here you can get the official standards which is hard to read:

* "ITU standards"

On the other end of the readability spectrum, here is a quick and sweet write up:

* "A Layman's Guide to a Subset of ASN.1, BER, and DER" by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst

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Metadata-Version: 1.1
Name: pyasn1
Version: 0.4.2
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof <etingof@gmail.com>
Author-email: etingof@gmail.com
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
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* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/tests/compat/test_binary.py
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This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.
This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:

- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
     or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they’re used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

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Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation       July/August 1996
Misc bug fixes           May 1997
Submission to Apache Software Foundation  July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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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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1.3293 uap-go 0.0.0-20190826212731-daf92ba38329

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1.3294 json-java 2.1.0

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# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibily to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
   Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation.
I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.
## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make serialize :some_attribute, `JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and `JSON::GenericObject`. It should not be possible to create additions unless explcitely requested by setting the create_additions argument to true or using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explcitely enabled by setting
  
  ```
  JSON::GenericObject.json_creatable = true
  ```
  
as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix https://github.com/flori/json/issues#issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load("")` return nil as well to make mysql text columns (default to `"") work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:
  
  serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the
patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to
  what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by
  jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem
  reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex
  and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects
  the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or
  Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue
  https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz
  <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was
  reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23,
  always create a new object from the state prototype.
* Made pure and ext api more similar again.
## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261cc8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State#[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.
## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of `/` characters in the generator's output. The parsers aren't affected by this change. Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure
## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the "max_nesting" feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.
## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-03-24 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `"{ ... }"` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\r\n\`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases `generate` and `pretty_generate` of `unparse` and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!
## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/-characters), that was reported by
  Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go
to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/$(name)/$(version)/$(format)/CHANGES.md

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Internet Engineering Task Force (IETF) T. Bray, Ed.
Request for Comments: 7159 Google, Inc.
Obsoletes: 4627, 7158 March 2014
Category: Standards Track
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The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based,
language-independent data interchange format. It was derived from
the ECMAScript Programming Language Standard. JSON defines a small
set of formatting rules for the portable representation of structured
data.

This document removes inconsistencies with other specifications of
JSON, repairs specification errors, and offers experience-based
interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force
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received public review and has been approved for publication by the
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Information about the current status of this document, any errata,
and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.

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1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
The key words "MUST", "MUST NOT", "REQUIRED", " SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document’s goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an
array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

JSON-text = ws value ws

These are the six structural characters:

begin-array = ws %x5B ws ; [ left square bracket

begin-object = ws %x7B ws ; { left curly bracket

end-array = ws %x5D ws ; ] right square bracket

end-object = ws %x7D ws ; } right curly bracket

name-separator = ws %x3A ws ; : colon

value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *( %x20 / ; Space
     %x09 / ; Horizontal tab
     %x0A / ; Line feed or New line
     %x0D ) ; Carriage return

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = %x66.61.6c.73.65 ; false

null = %x6e.75.6c.6c ; null

true = %x74.72.75.65 ; true
4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

```
object = begin-object [ member *( value-separator member ) ]
        end-object
```

A member is a string name-separator value.

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

```
array = begin-array [ value *( value-separator value ) ] end-array
```

There is no requirement that the values in an array be of the same type.

6. Numbers
The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

An exponent part begins with the letter E in upper or lower case, which may be followed by a plus or minus sign. The E and optional sign are followed by one or more digits.

Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

```
number = [ minus ] int [ frac ] [ exp ]
decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E
exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT
int = zero / ( digit1-9 *DIGIT )
minus = %x2D ; -
plus = %x2B ; +
zero = %x30 ; 0
```

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range...
than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \[-(2**53)+1, (2**53)-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual
Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

string = quotation-mark *char quotation-mark

char = unescaped /
    escape ( %x22 / ; " quotation mark U+0022
        %x5C / ; \ reverse solidus U+005C
        %x2F / ; / solidus U+002F
        %x62 / ; b backspace U+0008
        %x66 / ; f form feed U+000C
        %x6E / ; n line feed U+000A
        %x72 / ; r carriage return U+000D
        %x74 / ; t tab U+0009
        %x75 4HEXDIG ) ; uXXXX U+XXXX
    escape = %x5C ; \n
    quotation-mark = %x22 ; "

    unescaped = %x20-21 %x23-5B %x5D-10FFFF

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8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.
8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.
nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.
13. Examples

This is a JSON object:

```
{
  "Image": {
    "Width": 800,
    "Height": 600,
    "Title": "View from 15th Floor",
    "Thumbnail": {
      "Url": "http://www.example.com/image/481989943",
      "Height": 125,
      "Width": 100
    },
    "Animated": false,
    "IDs": [116, 943, 234, 38793]
  }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
  {
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
  },
  {
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": ""
  }
]
```
Here are three small JSON texts containing only values:

"Hello world!"

42

true

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


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Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.

- Clarified the absence of a requirement that values in an array be of the same JSON type.

- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".

- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.

- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.

- Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

- Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

- Updated and tidied the "IANA Considerations" section.

- Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

- Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

- Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.
- Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

- Changed "100" to 100 and added a boolean field, both in the first example.

- Added examples of JSON texts with simple values, neither objects nor arrays.

- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

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1.3300 python-requests 2.26.0

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.3303 ufw 0.36-0ubuntu0.18.04.2

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1.3304 prometheus-client 2.1.0

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  testHeader(t, r, "Accept", mediaTypeLicensesPreview)
  fmt.Fprint(w, `[`{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}``
})

licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{
    License{
      Key:  String("mit"),
      Name: String("MIT"),
      URL:  String("https://api.github.com/licenses/mit"),
    }
}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprint(w, `{"key":"mit","name":"MIT"}`
  })
}

license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
  _, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omiteempty"
    Description    *string   `json:"description,omiteempty"
    Category       *string   `json:"category,omiteempty"
    Implementation *string   `json:"implementation,omiteempty"
    Required       *[]string `json:"required,omiteempty"
    Permitted      *[]string `json:"permitted,omiteempty"
    Forbidden      *[]string `json:"forbidden,omiteempty"

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() ([]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)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }
}
return license, resp, err
}

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Async is a composable asynchronous I/O framework for Ruby based on [nio4r](https://github.com/socketry/nio4r) and [timers](https://github.com/socketry/timers).

> "Lately I've been looking into `async`, as one of my projects – [tus-ruby-server](https://github.com/janko/tus-ruby-server) – would really benefit from non-blocking I/O. It's really beautifully designed."  *– [janko](https://github.com/janko)*
## Features

- Scalable event-driven I/O for Ruby. Thousands of clients per process!
- Light weight fiber-based concurrency. No need for callbacks!
- Multi-thread/process containers for parallelism.
- Growing eco-system of event-driven components.

## Usage

Please see the [project documentation](https://socketry.github.io/async).

## Contributing

We welcome contributions to this project.

1. Fork it.
2. Create your feature branch (`git checkout -b my-new-feature`).
3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

## See Also

- [async-websocket](https://github.com/socketry/async-websocket) — Asynchronous client and server websockets.
- [async-dns](https://github.com/socketry/async-dns) — Asynchronous DNS resolver and server.
- [async-rspec](https://github.com/socketry/async-rspec) — Shared contexts for running async specs.

### Projects Using Async

- [ciri](https://github.com/ciri-ethereum/ciri) — An Ethereum implementation written in Ruby.
- [falcon](https://github.com/socketry/falcon) — A rack compatible server built on top of `async-http`.
- [rubydns](https://github.com/ioquatix/rubydns) — A easy to use Ruby DNS server.
- [slack-ruby-bot](https://github.com/slack-ruby/slack-ruby-bot) — A client for making slack bots.

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1.3317 masterminds-semver 3.0.3

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Protocol Buffers for Go with Gadgets

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* golang.org/x/mod/module - https://github.com/golang/mod

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct{
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:     "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
    }
}

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type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
            }
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{LicenseKey: req.LicenseKey, Labels: req.Labels,})

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{

Res: &types.RemoveLicenseResponse{},

for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
        return body
    }
}
return body

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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package migration
import "fmt"

// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const ( // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that `tar` be installed in the container image.

```
bash
kubectl cp /tmp/foo_dir <pod-name>:/tmp/bar_dir
```

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `~/path`  
- Remote file format is `pod-name:/path`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `~/path`  
- Remote file format is `pod-name:/path`
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `--c <container-name>`

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

---bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>/tmp/bar
---

---bash
kubectl cp /tmp/foo <some-pod>/tmp/bar -c <specific-container>
---

---bash
kubectl cp /tmp/foo <some-namespace>/archive/<some-pod>/tmp/bar
---

runc

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CoreOS Project
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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package github

import (  
    "fmt"  
    "net/http"  
    "reflect"  
    "testing"  
)

func TestLicensesService_List(t *testing.T) {  
    setup()  
    defer teardown()  

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {  
        testMethod(t, r, "GET")  
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)  
        fmt.Fprint(w, `[
            {{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}}
        ]`)  
    })

    licenses, _, err := client.Licenses.List()  
    if err != nil {  
        t.Errorf("Licenses.List returned error: %v", err)  
    }  

    want := []License{License{  
        Key: String("mit"),  
        Name: String("MIT"),  
        URL: String("https://api.github.com/licenses/mit"),  
    }}  
    if !reflect.DeepEqual(licenses, want) {  
        t.Errorf("Licenses.List returned %v, want %v", licenses, want)  
    }  
}

func TestLicensesService_Get(t *testing.T) {  
    setup()  
    defer teardown()  

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {  
        testMethod(t, r, "GET")  
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)  
        fmt.Fprint(w, `{{"key":"mit","name":"MIT"}}`)  
    })

    license, _, err := client.Licenses.Get("mit")  
    if err != nil {  
        t.Errorf("Licenses.Get returned error: %v", err)  
    }  
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %v, want %v", license, want)
}
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.

type LicensesService struct {
// License represents an open source license.
type License struct {
  Key  *string `json:"key",omitempty`
  Name *string `json:"name",omitempty`
  URL  *string `json:"url",omitempty`
  HTMLURL        *string `json:"html_url",omitempty`
  Featured       *bool `json:"featured",omitempty`
  Description    *string `json:"description",omitempty`
  Category       *string `json:"category",omitempty`
  Implementation *string `json:"implementation",omitempty`
  Required       *[]string  `json:"required",omitempty`
  Permitted      *[]string  `json:"permitted",omitempty`
  Forbidden      *[]string  `json:"forbidden",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() ([]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)
  licenses := new([]License)
  resp, err := s.client.Do(req, licenses)
  if err != nil {
    return nil, resp, err
  }
  return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.3327 golang-org-x-sys v0.0.0-
20190916202348-b4daad3f8a3

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1.3328 ruby-did-you-mean 1.2.0 2
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1.3329 spf13-pflag 1.0.5

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1.3330 kubernetes-apimachinery 0.18.3

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1.3331 util-linux 2.31.1 0.4ubuntu3.7

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1.3332 pwgen 2.08-1

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1.3333 utils-merge 1.0.1

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1.3334 kingpin 2.2.6

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1.3335 stevedore 3.5.0

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1.3336 argcomplete 1.12.3

1.3361 Available under license:

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# Copyright 2012-2019, Andrey Kislyuk and argcomplete contributors.
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# Copy of __expand_tilde_by_ref from bash-completion
__python_argcomplete_expand_tilde_by_ref () {
    if [ "${!1:0:1}" = "~" ]; then
        if [ "${!1}" != "${!1///}" ]; then
            eval $1="${!1//%\/*}$/!#/";
        else
            eval $1="${!1}";
        fi;
    fi
}

# Run something, muting output or redirecting it to the debug stream depending on the value of _ARC_DEBUG.
# If ARGCOMPLETE_USE_TEMPFILES is set, use tempfiles for IPC.
__python_argcomplete_run () {
    if ![ -z "${ARGCOMPLETE_USE_TEMPFILES-}" ]; then
        __python_argcomplete_run_inner "$@
    fi
    local tmpfile="$(mktemp)"
    __ARGCOMPLETE_STDOUT_FILENAME="$tmpfile" __python_argcomplete_run_inner "$@
    local code=$?
    cat "$tmpfile"
    rm "$tmpfile"
    return $code
}

__python_argcomplete_run_innert() {
    if ![ -z "${_ARC_DEBUG-}" ]; then
        "$@" 8>&1 9>&2 1>/dev/null 2>&1
    else
        "$@" 8>&1 9>&2 1>&9 2>&1
    fi

    if [ "${!1:0:1}" = "~" ]; then
        if [ "${!1}" != "${!1///}" ]; then
            eval $1="${!1//%\/*}$/!#/";
        else
            eval $1="${!1}";
        fi;
    fi
}
# Scan the beginning of an executable file ($1) for a regexp ($2). By default,
# scan for the magic string indicating that the executable supports the
# argcomplete completion protocol. By default, scan the first kilobyte;
# if $3 is set to -n, scan until the first line break up to a kilobyte.
__python_argcomplete_scan_head() {
  read -s -r ${3:--N} 1024 < "$1"
  [[ "$REPLY" =~ ${2:-PYTHON_ARGCOMPLETE_OK} ]]}

__python_argcomplete_scan_head_noerr() {
  __python_argcomplete_scan_head "$@" 2>/dev/null}

__python_argcomplete_global() {
  local executable=$1
  __python_argcomplete_expand_tilde_by_ref executable

  local ARGCOMPLETE=0
  if [[ "$executable" =~ python* ]]; then
    if [[ "%{COMP_WORDS[1]}" == -m ]]; then
      if __python_argcomplete_run "$executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then
        ARGCOMPLETE=3
      else
        return
      fi
    elif __python_argcomplete_scan_head_noerr "${COMP_WORDS[1]}"; then
      local ARGCOMPLETE=2
    else
      return
    fi
  elif type -P "$executable" >/dev/null 2>&1; then
    local SCRIPT_NAME=$(type -P "$executable")
    if type -t pyenv && [""$SCRIPT_NAME" = $(pyenv root)/shims/*"]; then
      local SCRIPT_NAME=$(pyenv which "$executable")
    fi
    if __python_argcomplete_scan_head_noerr "$SCRIPT_NAME"; then
      local ARGCOMPLETE=1
    else
      local ARGCOMPLETE=1
    fi
    __python_argcomplete_scan_head_noerr "$SCRIPT_NAME":^#!(.*$) -n & & [""${BASH_REMATCH[1]}" = ^.*\(python|pypy\)[0-9.]*$]; then
      local interpreter="$BASH_REMATCH"
      if (__python_argcomplete_scan_head_noerr "$SCRIPT_NAME" "(PBR Generated)|(EASY-INSTALL-SCRIPT|ENTRY-SCRIPT|DEV-SCRIPT)" "python-argcomplete-check-easy-install-script") >/dev/null 2>&1; then
        local ARGCOMPLETE=1
      fi
    fi
  fi
}
elif __python_argcomplete_run "$interpreter" -m argcomplete._check_console_script "$SCRIPT_NAME";
then
local ARGCOMPLETE=1
fi
fi
fi
if [[ $ARGCOMPLETE != 0 ]]; then
local IFS=$(echo -e '\v')
COMPREPLY=( $(_ARGCOMPLETE_IFS="$IFS" \
COMP_LINE="$COMP_LINE" \
COMP_POINT="$COMP_POINT" \
COMP_TYPE="$COMP_TYPE" \
_ARGCOMPLETE_COMP_WORDBREAKS="$COMP_WORDBREAKS" \
_ARGCOMPLETE=$ARGCOMPLETE \
_ARGCOMPLETE_SUPPRESS_SPACE=1 \
__python_argcomplete_run "$executable" "${COMP_WORDS[@]:1:ARGCOMPLETE-1}") )
if [[ $? != 0 ]]; then
unset COMPREPLY
elif [[ "${COMPREPLY-}" =~ [=/:]$ ]]; then
compopt -o nospace
fi
else
type -t _completion_loader | grep -q 'function' && _completion_loader "$@"
fi
}
complete -o default -o bashdefault -D -F _python_argcomplete_global
Found in path(s):
* /opt/cola/permits/1158616940_1619802213.38/0/kislyuk-argcomplete-v1-12-3-0-gce54b6d-tar-gz/kislyukargcomplete-5c73750/argcomplete/bash_completion.d/python-argcomplete
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  site: string
  author: root

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### 1.3364 llvm 6.0~+rc2-1

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
  ; CHECK-LABEL: PR41535:
  ; CHECK: // %bb.0:
  ; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
  ; CHECK-NEXT:  mov v0.d[1], v0.d[0]
  ; CHECK-NEXT:  ret
  %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
  %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
  %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
  ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246: ; preds = %CF246, %BB
  %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF246, %CF246
  store i8 %Sl163, i8* %0
  br label %CF248
}

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:  # %bb.0:
; CHECK-NEXT:  pushq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  .cfi_offset %rbx, -16
define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:  retq
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestCopysign:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:  orps %xmm1, %xmm0
  ; CHECK-NEXT:  retq
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  ; CHECK-LABEL: TestFneg:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  pushq %rax
  ; CHECK-NEXT:  .cfi_def_cfa_offset 16
  ; CHECK-NEXT:  retq
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
; CHECK-NEXT: movaps %xmm0, %xmm1
; CHECK-NEXT: callq __multf3
; CHECK-NEXT: xorps {[*]}(%rip), %xmm0
; CHECK-NEXT: popq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}

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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.

; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %7 = load volatile i8, i8* %4
; CHECK-NEXT: %11 = load volatile i8, i8* %6
; CHECK-NEXT: %14 = load volatile i8, i8* %8
; CHECK-NEXT: store i8 %4, i8* inttoptr(i32 805873688 to i8*)
; CHECK-NEXT: store i8 %3, i8* inttoptr(i32 805873719 to i8*)
; CHECK-NEXT: store i8 %2, i8* inttoptr(i32 805873720 to i8*)

@goo = global i8* undef
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C1]], 62
; CHECK-NEXT: %10 = inttoptr i32 %[[M5]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
 ; CHECK-LABEL: define \{[^*]+\} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
 ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  %tmp = load <8 x i64>, <8 x i64>* %arg
; CHECK-NEXT:  store <8 x i64> %tmp, <8 x i64>* %arg
; CHECK-NEXT:  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  %tmp = load <8 x i64>, <8 x i64>* %arg1
; CHECK-NEXT:  store <8 x i64> %tmp, <8 x i64>* %arg
; CHECK-NEXT:  ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  %tmp = load <8 x i64>, <8 x i64>* %arg1
; CHECK-NEXT:  store <8 x i64> %tmp, <8 x i64>* %arg
; CHECK-NEXT:  ret void
}

; This should promote
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256("8 x i64"* %arg) #1 {
; CHECK-LABEL: define @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: <"8 x i64"*> [[ARG:*]]
; CHECK-NEXT: bb:
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256("8 x i64"* %arg) #0 {
; CHECK-LABEL: define @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: <"8 x i64"*> [[ARG:*]]
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:  ret void

); This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL:  define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME:  (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:  ret void
;
; bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL:  define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME:  (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:  ret void
i64* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

}; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

}; This should not promote
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    :
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT: ret void
    :
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; CHECK-LABEL: define [[|^@|]+]@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  ; CHECK-LABEL: define [[|^@|]+]@avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT: ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    %tmp2 = load <8 x i64>, <8 x i64>* %arg
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
    ; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
}
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [%A], i32* %B)
    ret i32 %C
}

define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [%A], i32* %B)
    ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512

RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```assembly
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  CHECK-LABEL: add256:
  CHECK:       # %bb.0:
  CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  CHECK-NEXT:  vpaddd 32(%rsi), %ymm1, %ymm1
  CHECK-NEXT:  vpaddd (%rsi), %ymm0, %ymm0
  CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
  CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  CHECK-LABEL: add512:
  CHECK:       # %bb.0:
  CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
  CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
  CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,

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define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:   vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:   vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:   vzerooupper
    ; CHECK-NEXT:   retq
    ; CHECK-NEXT:   %A = load <32 x i16>, <32 x i16>* %APtr
    ; CHECK-NEXT:   %B = load <32 x i16>, <32 x i16>* %BPtr
    ; CHECK-NEXT:   %a = sext <32 x i16> %A to <32 x i32>
    ; CHECK-NEXT:   %b = sext <32 x i16> %B to <32 x i32>
    ; CHECK-NEXT:   %m = mul nsw <32 x i32> %a, %b
    ; CHECK-NEXT:   %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    ; CHECK-NEXT:   %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    ; CHECK-NEXT:   %ret = add <16 x i32> %odd, %even
    ; CHECK-NEXT:   store <16 x i32> %ret, <16 x i32>* %CPtr
    ; CHECK-NEXT:   ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:   vpmaddwd64 (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:   vzerooupper
    ; CHECK-NEXT:   retq
    ; CHECK-NEXT:   %A = load <32 x i16>, <32 x i16>* %APtr
    ; CHECK-NEXT:   %B = load <32 x i16>, <32 x i16>* %BPtr

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%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpsubusb 32(%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:    vpmaddwd %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:    vpmovsxbw %rsi,%rcx, %ymm3
    ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
    ; CHECK-NEXT:    vpmaddwd %ymm1,%ymm3, %ymm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB8_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpaddd %xmm1,%xmm0, %xmm0
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body

    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
}
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:     # %bb.0: # %entry
    ; CHECK-NEXT: movl %edx, %eax
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
}
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %11, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

code:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20,
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {  
; CHECK-LABEL: sad_16i8_256:  
; CHECK:       # %bb.0: # %entry  
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00  
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT:    .p2align 4, 0x90  
; CHECK-NEXT:  .LBB10_1: # %vector.body  
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2  
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2  
; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1  
; CHECK-NEXT:    addq $4, %rax  
; CHECK-NEXT:    jne .LBB10_1  
; CHECK-NEXT:  # %bb.2: # %middle.block  
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0  
; CHECK-NEXT:    vextracti128 $1, %ymm0, %ymm1  
; CHECK-NEXT:    addq $4, %rax  
; CHECK-NEXT:    jne .LBB10_1  
; CHECK-NEXT:  # %bb.3: # %end.block  
; CHECK-NEXT:    ret i32 %13  
}  

@a = global [1024 x i8] zeroinitializer, align 16  
@b = global [1024 x i8] zeroinitializer, align 16  

; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpsrfd [[.*#*]] %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpsrfd [[.*#*]] %xmm1 = %xmm0[1,1,2,3]
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK: # %bb.0: % %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT:  .LBB11_1: # %vector.body
 ; CHECK-NEXT:     # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
 ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
 ; CHECK-NEXT:    vpadd %zmm0, %zmm1, %zmm0
 ; CHECK-NEXT:    addq $4, %rax
 ; CHECK-NEXT:    jne .LBB11_1
 ; CHECK-NEXT:  # %bb.2: # %middle.block
 ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpsufld {.*} %zmm1 = %xmm0[2,3,0,1]
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpsufld {.*} %zmm1 = %xmm0[1,1,2,3]
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vmovd %xmm0, %eax
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, %index, undef, <16 x i32> undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef, undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelem <16 x i32> %bin.rdx4, 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:
  ;  # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm1
  ; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
  ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
  ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq

  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:
  ;  # %bb.0:
  ; CHECK-NEXT: vpmovw2m %zmm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vmovaps %zmm0, 32(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq

  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:
  ;  # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  ; CHECK-AVX512-LABEL: mul256:
  ; CHECK-AVX512:   # %bb.0:
  ; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
  ; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm2 = ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm4[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm5[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
  ; CHECK-AVX512-NEXT: vmovdqa %ymm0, %ymm0 {%k1} [z]
  ; CHECK-AVX512-NEXT: vmovdqa16 %ymm0, %ymm0 {%k1} [z]
  ; CHECK-AVX512-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-AVX512-NEXT: vcvttps2dq (%rdi), %zmm1
  ; CHECK-AVX512-NEXT: retq
  ; CHECK-NEXT: retq
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} [z]
  ; CHECK-NEXT: retq

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; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:     # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                      ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
                      ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
                      ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm3 =
                      ymm3[0,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
                      ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpnullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                      ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpnullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
                      ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:     # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpand %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL:  mul512:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper

; CHECK-VBMI-NEXT:  retq
  %d = load <64 x i8>, <64 x i8>*, %a
  %e = load <64 x i8>, <64 x i8>*, %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>*, %c
  ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>*, %addr, <4 x i32>*, %dst) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: mload_v4i32:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
  ; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
  ; CHECK-NEXT:  retq
  %mask = icmp eq <4 x i32> %trigger, zeroinitializer
  %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1> %mask, <4 x i32>*, %dst)
  ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>*, %x) nounwind "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: trunc_v16i64_v16i32:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
  ; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
  ; CHECK-NEXT:  vpmovqd %ymm2, %xmm2
  ; CHECK-NEXT:  vpmovqd %ymm3, %xmm3
  ; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
  ; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
  ; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
  ; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
  ; CHECK-NEXT:  retq
  %a = load <16 x i64>, <16 x i64>*, %x
  %b = trunc <16 x i64> %a to <16 x i32>
  ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>*, %x) nounwind "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: trunc_v16i64_v16i8:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
  ; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
  ; CHECK-NEXT:  vpmovqd %ymm2, %xmm2
  ; CHECK-NEXT:  vpmovqd %ymm3, %xmm3
  ; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
  ; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
  ; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
  ; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
  ; CHECK-NEXT:  retq
  %c = load <16 x i8>, <16 x i8>*, %a
  %d = trunc <16 x i8> %c to <16 x i8>
  ret <16 x i8> %d
}
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT: vpmovqb %ymm3, %xmm3
; CHECK-NEXT: vpmovqb %ymm2, %xmm2
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK: # %bb.0:
define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:  
; CHECK:  # %bb.0:  
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1  
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2  
; CHECK-NEXT: vmovdqa [%.*#+] ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]  
; CHECK-NEXT: vpermior %ymm1, %ymm2, %ymm0  
; CHECK-NEXT: retq  
  %a = load <8 x i64>, <8 x i64>* %x  
  %b = lshr <8 x i64> %a, <i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16>  
  %c = trunc <8 x i64> %b to <8 x i32>  
  ret <8 x i32> %c  
}
define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i32_sign:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpursaq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT:   vpursaq $48, (%rdi), %ymm1
    ; CHECK-NEXT:   vpmovq %ymm1, %xmm1
    ; CHECK-NEXT:   vpmovq %ymm0, %xmm0
    ; CHECK-NEXT:   vpsra <8 x i64> %b to <8 x i32>
    ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i16_sign:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT:   vmovdqa [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
    ; CHECK-NEXT:   vpmovi2w 32(%rdi), %ymm1, %ymm0
    ; CHECK-NEXT:   vpsra <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT:   vpsraw $8, 32(%rdi), %ymm0
    ; ; CHECK-VA...
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" { 
    ; CHECK-LABEL: zext_v16i8_v16i64:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm1 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm3 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm2 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
    ; CHECK-NEXT: vpmovzxvw {{.*#+}} ymm3 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vpmovzxvbq {{.*#+}} ymm0 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = zext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, 16 x i64>* %y
    ret void
}
define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: sext_v16i8_v16i64:  
; CHECK:    % %bb.0:  
; CHECK-NEXT: vpmovsxbw %xmm0, %ymm0  
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT: vpmovsxdq %ymm1, %xmm1  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2  
; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]  
; CHECK-NEXT: vpmovsxdq %ymm3, %xmm3, %ymm3  
; CHECK-NEXT: vpmovsxdq %ymm0, %ymm0  
; CHECK-NEXT: vpmovsxdq %ymm2, %ymm2  
; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)  
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)  
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)  
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%a = sext <16 x i8> %x to <16 x i64>  
store <16 x i64> %a, <16 x i64>* %y  
ret void  
}

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {  
; CHECK-LABEL: vselect_split_v8i16_setcc:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3  
; CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1  
; CHECK-NEXT: kshiftrb $4, %k1, %k2  
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}  
; CHECK-NEXT: vmovdqa64 {%rdi}, %ymm2 {%k1}  
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%a = load <8 x i16>, <8 x i64>* %p  
%y = load <8 x i64>, <8 x i64>* %q  
%a = icmp eq <8 x i16> %s, %t  
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y  
store <8 x i64> %b, <8 x i64>* %r  
ret void  
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {  
; CHECK-LABEL: vselect_split_v8i32_setcc:  

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: vselect_split_v16i8_setcc:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
  ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
  ; CHECK-NEXT:  vpcmpeqb %xmm1, %xmm0, %k1
  ; CHECK-NEXT:  kshiftrw $8, %k1, %k2
  ; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
  ; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
  ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <8 x i64>, <8 x i64>* %p
  %y = load <8 x i64>, <8 x i64>* %q
  %a = icmp eq <8 x i8> %s, %t
  %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
  store <8 x i64> %b, <8 x i64>* %r
  ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: vselect_split_v16i16_setcc:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
  ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
  ; CHECK-NEXT:  vpcmpeq %ymm1, %ymm0, %k1
  ; CHECK-NEXT:  kshiftrb $4, %k1, %k2
  ; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
  ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <16 x i32>, <16 x i32>* %p
  %y = load <16 x i32>, <16 x i32>* %q
  %a = icmp eq <16 x i8> %s, %t
  %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
  store <16 x i32> %b, <16 x i32>* %r
  ret void
}

define void @vselect_split_v16i32_setcc(<16 x i32> %s, <16 x i32> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: vselect_split_v16i32_setcc:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
  ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
  ; CHECK-NEXT:  vpcmpeqw %ymm1, %ymm0, %k1
  ; CHECK-NEXT:  kshiftr $8, %k1, %k2
  ; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
  ; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
  ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <16 x i32>, <16 x i32>* %p
  %y = load <16 x i32>, <16 x i32>* %q
  %a = icmp eq <16 x i16> %s, <16 x i16> %t
  %b = select <16 x i8> %a, <16 x i32> %x, <16 x i32> %y
  store <16 x i32> %b, <16 x i32>* %r
  ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovq (%rdi), %ymm0
    ; CHECK-NEXT:   vpacq <16 x i8>, %ymm0, %ymm0
    ; CHECK-NEXT:   vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:   vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq

    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <16 x i32>* %p
    %c = select <16 x i1> %a, %b, <16 x i32>* %p
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovq (%rdi), %ymm0
    ; CHECK-NEXT:   vpacq <16 x i8>, %ymm0, %ymm0
    ; CHECK-NEXT:   vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:   vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq

    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <16 x i32>* %p
    %c = select <16 x i1> %a, %b, <16 x i32>* %p
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}
%c = select 16 x i1 %b, 16 x i32 %a, 16 x i32 %c, 16 x i32 %d, 16 x i32 %e, 16 x i32 %f, 16 x i8* %q
ret void
}

define 64 x i1 @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    retq
    ret 64 x i1 %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_shuffle:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm0
    ; CHECK-NEXT:    vptestnmb %ymm1, %ymm1, %k0
    ; CHECK-NEXT:    kshiftrd $1, %k0, %k1
    ; CHECK-NEXT:    movq $-3, %rax
    ; CHECK-NEXT:    kmovq %rax, %k2
    ; CHECK-NEXT:    kandq %k2, %k1, %k1
    ; CHECK-NEXT:    kshiftlq $63, %k2, %k2
    ; CHECK-NEXT:    kshiftrq $62, %k2, %k2
    ; CHECK-NEXT:    korq %k2, %k1, %k1
    ; CHECK-NEXT:    movq $-5, %rax
    ; CHECK-NEXT:    kmovq %rax, %k2
    ; CHECK-NEXT:    kandq %k2, %k1, %k1
    ; CHECK-NEXT:    kshiftlq $63, %k2, %k2
    ; CHECK-NEXT:    kshiftrq $61, %k2, %k2
    ; CHECK-NEXT:    korq %k2, %k1, %k1
    ; CHECK-NEXT:    movq $-9, %rax
    ; CHECK-NEXT:    kmovq %rax, %k2
    ; CHECK-NEXT:    kandq %k2, %k1, %k1
    ; CHECK-NEXT:    kshiftlq $63, %k2, %k2
    ; CHECK-NEXT:    kshiftrq $60, %k2, %k2
    ; CHECK-NEXT:    korq %k2, %k1, %k1
    ; CHECK-NEXT:    movq $-17, %rax
    ; CHECK-NEXT:    kmovq %rax, %k2
    ; CHECK-NEXT:    kandq %k2, %k1, %k1
    ; CHECK-NEXT:    kshiftlq $5, %k0, %k2
    ; CHECK-NEXT:    kshiftrq $63, %k2, %k2
    ; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrq $59, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $4, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $57, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $11, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrdr $10, %k0, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $15, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $17, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $14, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $16, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-281474976710657, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $17, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $15, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $16, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $14, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $19, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $13, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-2251799813685249, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $18, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
CHECK-NEXT: kshiftrq $12, %k2, %k2
CHECK-NEXT: korq %k2, %k0, %k0
CHECK-NEXT: movabsq $-4503599627370497, %rax # imm = 0xFFFFFFFFFFFFFFFF
CHECK-NEXT: kmovq %rax, %k2
CHECK-NEXT: kandq %k2, %k0, %k0
CHECK-NEXT: kshiftrd $21, %k1, %k2
CHECK-NEXT: kshifltq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $11, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $20, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $10, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-18014398509481985, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $23, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $9, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-36028797018963969, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $22, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $8, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $25, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $7, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-144115188075855873, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $24, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $6, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-288230376151711745, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $27, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $5, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xFFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $26, %k1, %k2
entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, undef, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, %shuf)
ret void
}
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:
# %bb.0:
; CHECK-NEXT: kmovq {{.*}}(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT: movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}
define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)

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define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: var_rotate_v16i8:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:  vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]  
    ; CHECK-NEXT:  vpsubb %xmm1, %xmm2, %xmm2  
    ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =  
    ; CHECK-NEXT:  xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero  
    ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm0 =  
    ; CHECK-NEXT:  xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero  
    ; CHECK-NEXT:  vpsllw %ymm0, %ymm0, %ymm1  
    ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm2 =  
    ; CHECK-NEXT:  xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm2[15],zero  
    ; CHECK-NEXT:  vpsllw %ymm2, %ymm2, %ymm0  
    ; CHECK-NEXT:  vpor %ymm0, %ymm1, %ymm0  
    ; CHECK-NEXT:  vpmovwb %ymm0, %xmm0  
    ; CHECK-NEXT:  vzeroupper  
    ; CHECK-NEXT:  retq
    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b  
    %shl = shl <16 x i8> %a, %b  
    %lshr = lshr <16 x i8> %a, %b8  
    %or = or <16 x i8> %shl, %lshr  
    ret <16 x i8> %or 
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: var_rotate_v32i8:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:  vpsllw $4, %ymm0, %ymm2  
    ; CHECK-NEXT:  vpsrlw $4, %ymm0, %ymm3  
    ; CHECK-NEXT:  vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3  
    ; CHECK-NEXT:  vpsllw $5, %ymm1, %ymm1  

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatvar_rotate_v32i8:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpbroadcastb %xmm1, %xmm1
    ; CHECK-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-NEXT: vmovzxbq {{.*#+}} xmm2 = xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT: vpsubb %xmm1, %xmm4, %xmm1
    ; CHECK-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-NEXT: vpbroadcastb %xmm2, %ymm2
    ; CHECK-NEXT: vmovzxbq {{.*#+}} xmm1 = xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT: vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-NEXT: vpsllw %xmm4, %ymm4, %xmm0
    ; CHECK-NEXT: vpsllw $8, %xmm0, %xmm0
    ; CHECK-NEXT: vpsllw %xmm4, %ymm4, %xmm2
    ; CHECK-NEXT: vpsllw $8, %ymm0, %ymm0
    ; CHECK-NEXT: vpcmpeqd %xmm4, %xmm4, %ymm0
    ; CHECK-NEXT: vpsllw %xmm4, %ymm2, %ymm0
    ; CHECK-NEXT: vpblendvb %ymm0, %ymm0, %ymm0
    ; CHECK-NEXT: vpblendvb %ymm3, %ymm3, %ymm0
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm1, %ymm0
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm1, %ymm3, %ymm0, %ymm0
    ; CHECK-NEXT: vpsllw $6, %ymm0, %ymm3
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
    ; CHECK-NEXT: retq
    ; CHECK-NEXT: %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    ; CHECK-NEXT: %shl = shl <32 x i8> %a, %b
    ; CHECK-NEXT: %lshr = lshr <32 x i8> %a, %b
    ; CHECK-NEXT: %or = or <32 x i8> %shl, %lshr
    ; CHECK-NEXT: ret <32 x i8> %or
}
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {;
  CHECK-AVX512-LABEL: constant_rotate_v32i8:
  CHECK-AVX512:    # %bb.0:
    CHECK-AVX512-NEXT:   vpsllw $4, %ymm0, %ymm1
    CHECK-AVX512-NEXT:   vpand {{.*}}(%rip), %ymm1, %ymm1
    CHECK-AVX512-NEXT:   vbroadcasti128 {{.*#+}} ymm2 = 
      [8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256, 8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256]
    CHECK-AVX512-NEXT:   # ymm2 = mem[0,1,0,1]
    CHECK-AVX512-NEXT:   vblendvb %ymm2, %ymm1, %ymm0, %ymm1
    CHECK-AVX512-NEXT:   vpsllw $2, %ymm1, %ymm3
    CHECK-AVX512-NEXT:   vpaddb {{.*}}(%rip), %ymm3, %ymm2
    CHECK-AVX512-NEXT:   vpsllw $2, %ymm1, %ymm3
    CHECK-AVX512-NEXT:   vpaddb %ymm2, %ymm3, %ymm0, %ymm1
    CHECK-AVX512-NEXT:   vpaddb %ymm2, %ymm3, %ymm0, %ymm1
    CHECK-AVX512-NEXT:   vpxor %xmm2, %xmm2, %xmm2
    CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} ymm3 = 
      ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13]
      , ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
    CHECK-AVX512-NEXT:   # ymm3 = mem[0,1,0,1]
    CHECK-AVX512-NEXT:   vpsllvw {{.*}}(%rip), %ymm3, %ymm3
    CHECK-AVX512-NEXT:   vpsrlw $8, %ymm3, %ymm3
    CHECK-AVX512-NEXT:   vpunpcklbw {{.*#+}} ymm0 = 
      ymm0[0], ymm2[0], ymm0[1], ymm2[1], ymm0[2], ymm2[2], ymm0[3], ymm2[3], ymm0[4], ymm2[4], ymm0[5], ymm2[5], ymm0[6], ymm2[6], ymm0[7], ymm2[7], ymm0[16], ymm2[16], ymm0[17], ymm2[17], ymm0[18], ymm2[18], ymm0[19], ymm2[19], ymm0[20], ymm2[20], ymm0[21], ymm2[21], ymm0[22], ymm2[22], ymm0[23], ymm2[23]
    CHECK-AVX512-NEXT:   vpsllw {{.*}}(%rip), %ymm0, %ymm0
    CHECK-AVX512-NEXT:   vpsrlw $8, %ymm0, %ymm0
    CHECK-AVX512-NEXT:   vpckuswb %ymm3, %ymm0, %ymm0
    CHECK-AVX512-NEXT:   vpor %ymm0, %ymm1, %ymm0
    CHECK-AVX512-NEXT:   retq
    ;
    ; CHECK-VBMI-LABEL: constant_rotate_v32i8:
    ; CHECK-VBMI:    # %bb.0:
    ; CHECK-VBMI-NEXT:   vpsllw $4, %ymm0, %ymm1
    ; CHECK-VBMI-NEXT:   vpand {{.*}}(%rip), %ymm1, %ymm1
    ; CHECK-VBMI-NEXT:   vbroadcasti128 {{.*#+}} ymm2 = 
      [8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256, 8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256]
    ; CHECK-VBMI-NEXT:   # ymm2 = mem[0,1,0,1]
    ; CHECK-VBMI-NEXT:   vblendvb %ymm2, %ymm1, %ymm0, %ymm1
    ; CHECK-VBMI-NEXT:   vpsllw $2, %ymm1, %ymm3
    ; CHECK-VBMI-NEXT:   vpand {{.*}}(%rip), %ymm3, %ymm3
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol
LINK_COMPONENTS
Support
)
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target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py

; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS_TUNIT____,IS________OP M,IS____TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -
target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ;
    ; NOT_TUNIT_NPM-LABEL: define

    ;

    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])

    ; NOT_TUNIT_NPM-NEXT: bb:

    ; NOT_TUNIT_NPM-NEXT: [[ARG1_PRIV:.]] = alloca <8 x i64>, align 64

    ; IS__TUNIT_NPM-NEXT: bb:

    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64

    ; NOT_TUNIT_NPM-NEXT: ret void

    ;

    ; IS__TUNIT_NPM-LABEL: define

    ;

    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])

    ; IS__TUNIT_NPM-NEXT: bb:

    ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:.]] = alloca <8 x i64>, align 64

    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64

    ; IS__TUNIT_NPM-NEXT: [[TMP:.]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64

    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64

    ; IS__TUNIT_NPM-NEXT: ret void

    ;

    bb:

    %tmp = load <8 x i64>, <8 x i64>* %arg

    store <8 x i64> %tmp, <8 x i64>* %arg

    ret void

}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
: IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
: IS__TUNIT_OPM-NEXT: bb:
: IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512 (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
: IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__TUNIT_OPM-NEXT: ret void
;
: IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
: IS__TUNIT_NPM-NEXT: bb:
: IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
: IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512 (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
: IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__TUNIT_NPM-NEXT: ret void
;
: IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
: IS__CGSCC_OPM-NEXT: bb:
: IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_OPM-NEXT: ret void
;
: IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_OPM-NEXT: ret void
;
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  %arg1 = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %arg1, <8 x i64>* %arg
  ret void
}

define void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  %arg1 = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %arg1, <8 x i64>* %arg
  ret void
}

define void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  %arg1 = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %arg1, <8 x i64>* %arg
  ret void
}
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; IS__CGSCC_OPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:   ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:   bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:   ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readily %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{|[^@]+|}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])


bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:    call fastcc void
@calleee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocaapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM-LABEL: define {{\[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocaapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@calleee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocaapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocaapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM-LABEL: define {{\[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocaapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void
@calleee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocaapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{[@]+}) @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS_TUNIT_NPM-LABEL: define
{[@]+}) @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS_TUNIT_NPM-NEXT: bb:
; IS_TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {

; IS_TUNIT_OPM-LABEL: define 
{[@]+}) @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS_TUNIT_OPM-NEXT: bb:
; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS_TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (8 x i64)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG: %.*]], (8 x i64)* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT:  bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void

; IS__UNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__UNIT_NPM-SAME: (8 x i64)* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG: %.*]], (8 x i64)* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS__UNIT_NPM-NEXT:  bb:
; IS__UNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__UNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__UNIT_NPM-NEXT:  ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512legal256_prefer256_call_avx512legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx512legal256_prefer256_call_avx512legal512_prefer256
; IS__UNIT_OPM-SAME: (8 x i64)* nocapture writeonly [[ARG: %.*]])
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

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: IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
: IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_OPM-NEXT:  ret void

: IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
  (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
: IS__CGSCC_NPM-NEXT: bb:
: IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
: IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
: IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_NPM-NEXT:  ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
#define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
;
; NOT_TUNIT_NPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    bb:
        %tmp = load <8 x i64>, <8 x i64>* %arg1
        store <8 x i64> %tmp, <8 x i64>* %arg
        ret void
    ...
}
store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
ret void

; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %arg), align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {

; NOT_TUNIT_NPM-LABEL: define
[[('@'+)]] @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:.]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define [[('@'+)]] @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {

; IS__TUNIT_OPM-LABEL: define [[('@'+)]] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[ARG1 PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1 PRIV]], align 64
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1 PRIV]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_OPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

#include<___asm>.h

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {

; IS__TUNIT_OPM-LABEL: define [[('@'+)]] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[ARG1 PRIV:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMPP2]], <8 x i64>* [[ARG1 PRIV]], align 32
; IS__TUNIT_OPM-NEXT: [[TMPP3:%.*]] = bitcast <8 x i64>* [[TMPP]], i8* to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMPP]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMPP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMPP]])
; IS__TUNIT_OPM-NEXT: [[TMPP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMPP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMPP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define [[('@'+)]] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])

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; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [][[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [][[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64>* noalias nocapture nofree nonnull readonly align 4
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [][[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64>* noalias nocapture nofree nonnull readonly align 4
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
%result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
   metadata !"fpexcept.strict")
   strictfp
ret i32 %result

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
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define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}
define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL256-LABEL: 'zext512'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'zext512'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
define void @sext256() "min-legal-vector-width"="256" {
  ; vec256-label: 'sext256'
  ; vec256-next: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; vec256-next: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; vec256-next: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; vec256-next: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; vec256-next: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; vec256-next: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; avx512vl512-label: 'sext256'
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; avx512vl512-next: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <32 x i8> undef to <32 x i16>
  ret void
}
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

SKX512-LABEL: 'sext256'

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>

SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>

%B = sext <8 x i16> undef to <8 x i64>

%C = sext <8 x i32> undef to <8 x i64>

%D = sext <16 x i8> undef to <16 x i32>

%E = sext <16 x i16> undef to <16 x i32>

%F = sext <32 x i8> undef to <32 x i16>

ret void

define void @sext512() "min-legal-vector-width"="512" {

AVX-LABEL: 'sext512'

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>

AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

AVX512VL256-LABEL: 'sext512'

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @trunc256() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc256'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
    ; AVX512VL256-LABEL: 'trunc256'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
    ; AVX512VL512-LABEL: 'trunc256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
    %A = trunc <8 x i64> undef to <8 x i32>
    %B = trunc <8 x i64> undef to <8 x i16>
    %C = trunc <8 x i64> undef to <8 x i8>
    %D = trunc <16 x i32> undef to <16 x i16>
    %E = trunc <16 x i32> undef to <16 x i8>
    %F = trunc <32 x i16> undef to <32 x i8>
    ret void
}

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: ‘zext256_vXi1’
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

SKX256-LABEL: 'zext256_vXi1'

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>
%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
\%V16i32 = zext <16 x i1> undef to <16 x i32>

\%V2i16 = zext <2 x i1> undef to <2 x i16>
\%V4i16 = zext <4 x i1> undef to <4 x i16>
\%V8i16 = zext <8 x i1> undef to <8 x i16>
\%V16i16 = zext <16 x i1> undef to <16 x i16>
\%V32i16 = zext <32 x i1> undef to <32 x i16>

\%V2i8 = zext <2 x i1> undef to <2 x i8>
\%V4i8 = zext <4 x i1> undef to <4 x i8>
\%V8i8 = zext <8 x i1> undef to <8 x i8>
\%V16i8 = zext <16 x i1> undef to <16 x i8>
\%V32i8 = zext <32 x i1> undef to <32 x i8>
\%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'sext256_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: \%I64 = sext i1 undef to i64
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V2i64 = sext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: \%V4i64 = sext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: \%V8i64 = sext <8 x i1> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: \%I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: \%V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: \%V16i32 = sext <16 x i1> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: \%I16 = sext i1 undef to i16
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V2i16 = sext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V4i16 = sext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V8i16 = sext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: \%I8 = sext i1 undef to i8

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i64 = sext <32 x i1> undef to <32 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i64 = sext <64 x i1> undef to <64 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>
%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}
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1.3379 lazy-object-proxy 1.3.1 1

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Source: https://github.com/ionelmc/python-lazy-object-proxy

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Files: *
  Makefile.am
  src/Makefile.am
  src/assuan-buffer.c
  src/assuan-error.c
  src/assuan-inquire.c
  src/assuan-io.c
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1.3381 guava 30.1-jre

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/package-info.java
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jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/CommonPattern.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ImmutableValueGraph.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
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Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
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 * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Internal.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java
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 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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  jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractType.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/LongMath.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/BloomFilter.java
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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
*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/annotations/VisibleForTesting.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/SubscriberExceptionContext.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/IndexedImmutableSet.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com-google-common-collect-ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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/**
 * Holder for web specializations of methods of [ @code Shorts ]. Intended to be empty for regular
 * version.
 */

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 * the License.
 */
/ *
 *
 * 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.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
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  jar/com/google/common/primitives/Shorts.java
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  jar/com/google/common/util/concurrent/SequentialExecutor.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RowSortedTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableCollection.java
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  jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/SortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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  jar/com/google/common/util/concurrent/ForwardingFuture.java
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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><//*>

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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/**
* Holder for web specializations of methods of { @code Floats}. Intended to be empty for regular
* version.
*/

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  jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
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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)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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lib/hcrypto/test_dh.c

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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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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the `with@dots{}Texts.” line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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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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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.
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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END OF TERMS AND CONDITIONS

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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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.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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with the Library, with the complete machine-readable "work that
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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
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name.omitempty"`
  URL  string `json:"url.omitempty"`
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.3412 opentracing-go 1.2.0

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1.3413 armon-go-metrics 0.0.0-20180917152333-f0300d1749da

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1.3416 typing-extensions 4.0.1
1.3416.1 Available under license :

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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1.3417 base-passwd 3.5.44

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1.3420 envtpl 0.6.0

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Protocol Buffers for Go with Gadgets

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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1.3435 github.com/banzaicloud/logrus-runtime-formatter 0.0.0-20190729070250-
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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.3440 c2h5oh-datasize 0.0.0-20200112174442-28bbd4740fee

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1.3441 python-decorator 4.1.2-1

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1.3442 grpc-gateway 1.9.5

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1.3445 okio 1.15.0

1.3446 libcilkrts 7.5.0-3ubuntu1~18.04
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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1.3452 strip-ansi 6.0.0

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1.3453 supports-color 5.5.0

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1.3454 mdadm 4.1~rc1 3~ubuntu18.04.4

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Martin F. Krafft <madduck@debian.org> took over on
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The mdadm source was downloaded from
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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1.3459 pollinate 4.33 0ubuntu1~18.04.2

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1.3462 scowl 2017.08.24-1
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1.3464 libteam5 1.26-1

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(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
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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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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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
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a) Accompany the work with the complete corresponding
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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,
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will operate properly with a modified version of the library, if
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- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.

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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.

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portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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Activities other than copying, distribution and modification are not
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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@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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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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, for humouring me on.


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lib/hcrypto/test_dh.c

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3482 jetty-io 9.4.35.v20201120

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* java.protocol.java sóc:java.websocket.api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Linus Torvalds

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package api

import (  
    "io/ioutil"  
    "strings"  
    "time"  
)

type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license  
    CustomerID string "json:"customer_id"
}
// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

} type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string

} func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.NewRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _ , resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return
    }

    // Additional logic for handling the signed license
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
}
Data model artifacts for Prometheus.
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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"
}

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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 */

package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"
    
    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

type objectLegalHold struct {  
    XMLNS   string          `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name        `xml:"LegalHold,omitempty"`
    Status  LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call

type PutObjectLegalHoldOptions struct {  
    VersionID string  
    Status     *LegalHoldStatus
}
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const {
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }
    objectLegalHold := newObjectLegalHold(&opts.LegalHoldStatus)
    if objectLegalHold == nil {
        return fmt.Errorf("Failed to create objectLegalHold")
    }
    // Set the version ID if present.
    if opts.VersionID != nil {
        objectLegalHold.VersionID = *opts.VersionID
    }
    // Call the S3 PutObjectLegalHold API.
    // ...
return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal lh
if err != nil {
    return err
}

reqMetadata := requestMetadata {
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader lhData,
    contentLength:    int64(len lhData),
    contentMD5Base64: sumMD5Base64 lhData,
    contentSHA256Hex: sum256Hex lhData,
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
    defer closeResponse resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse resp, bucketName, objectName
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return nil, err
}
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}
// Execute GET on bucket to list objects.
resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
} lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}
return &lh.Status, nil

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ByteArray.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/ScopedClassPoolFactory.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/ClassPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/URLClassPath.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/LongMemberValue.java

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1.3508 deathowl-go-metrics-prometheus
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1.3510 libnss 3.35-2ubuntu2.13

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/* Definitions for BSD assembler syntax for Intel 386
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    adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"un\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (\".comm \", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), \",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (\".lcomm \", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), \",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (\".lcomm \", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), \",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG) \
if ((LOG)!=0) fprintf ((FILE), \"\t.align %d\n\", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF, PREFIX, NUMBER) \
sprintf ((BUF), \"*%s%ld\", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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@end enumerate

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@end enumerate

@end enumerate

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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.if t .sp .5v
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..
.de Vb \v Begin verbatim text
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```
\tr *(W-
\ds C+ C\v`-1\v`h`-1p`ss-2+\v`h`-1p`+\s0\v`\v`h`-1p`
\ie n \{\n    ds -- *(W-
    ds PI pi
    if (\n(.H=4u)&(1m=24u) .ds -- *(W\v`h`-12u\v`h`-12u`-\v`diablo 10 pitch
    if (\n(.H=4u)&(1m=20u) .ds -- *(W\v`h`-12u\v`h`-8u`-\v`diablo 12 pitch
    ds L" "
    ds R" "
    ds C` "
    ds C' "
\br\}
\el\{\n    ds -- \|(em\}
    ds PI \"p
    ds L" "
    ds R" "
    ds C'
    ds C'
\br\}
```

\" Escape single quotes in literal strings from groff's Unicode transform.

```
\ie \n(g .ds Aq \|aq
\el .ds Aq '
```

\" If the F register is turned on, we'll generate index entries on stderr for titles (\TH), headers (\SH), subsections (\SS), items (\Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

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de IX
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.if n .ad 1
.nlm #A #I #H #V #F C
\" == "="
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========

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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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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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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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d. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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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!
#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script 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, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess
class Errors:
def __init__ (self):
self.num_errors = 0
def report (self, filename, string):
if filename:
string = filename + ': ' + string
sys.stderr.write (string + '\n')
self.num_errors += 1
def ok (self):
return self.num_errors == 0
class GenericFilter:
def __init__ (self):
self.skip_files = set()
self.skip_dirs = set()
self.skip_extensions = set()
self.fossilised_files = set()
self.own_files = set()
self.skip_files |= set ([
# Skip licence files.
'COPYING',
'COPYING.LIB',
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltsugar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',

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def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
    if os.path.exists (base + '.in'):
        return True

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
})
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9,.\s]+and\s+)\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\\w\-\-'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'\b(C\(C\)p\(r\)y\right)s+(C\(C\))\b'
                                       r'|\b(C\(C\)p\(r\)y\right)s+\%s'
                                       r'|\b(C\(C\)p\(r\)y\right)s+&copy\b'
                                       r'|\b(C\(C\)p\(r\)y\right)s+@copyright\[\b'
                                       r'|copyright = u\''
                                       r'|[@set\s+copyright\[w\-]+\b'
                                       r'|\s*(?:' + ranges + ',?'
                                       r'|@value\{[^{}]*\})\s*')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*\(\?: + ranges + \?,?'
        '\@value\{[^\[]\}\s*')
# 3: ‘by ’, if used

'(by\s+)’

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texti).

'( + name + (?:\s? + name + *))?’

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
if len(string) == 2:
    if year > 70:
        return year + 1900
elif len(string) == 4:
    return year
raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes

---
or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):  
        intro += ' (C)'
    elif intro.endswith ('(c)'):  
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
if filename.endswith('.tmp'):
    # Looks like something we tried to create before.
    try:
        os.remove(pathname)
    except OSError:
        pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter(dir, filename)
mode = None
with open(pathname, 'r') as file:
    prev = None
    mode = os.fstat(file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter, file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search(line):
                self.errors.report(pathname, 'unrecognised copyright: %s
% line.strip())
                lines.append(line)
                line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open(tmp_pathname, 'w') as file:
                for line in lines:
                    file.write(line)
                os.fchmod(file.fileno(), mode)
                if self.use_quilt:
                    subprocess.call(['quilt', 'add', pathname])
                os.rename(tmp_pathname, pathname)

    def process_tree(self, tree, filter):
        for (dir, subdirs, filenames) in os.walk(tree):
# Don't recurse through directories that should be skipped.
for i in xrange(len(subdirs) - 1, -1, -1):
    if filter.skip_dir(dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file(dir, filename):
        sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
    else:
        self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter = GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option = None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))

        sys.stdout.write('Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            sys.stdout.write(format % dir)
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + '\n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])

---

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```python
def skip_file(self, dir, filename):
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    if filename == 'README' and os.path.basename(dir) == 'params':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['.po', '.pot'])

    class LibGCCFilter(GenericFilter):
        def __init__(self):
            GenericFilter.__init__(self)

            self.skip_dirs |= set(['soft-fp'])

    class LibStdCxxFilter(GenericFilter):
        def __init__(self):
            GenericFilter.__init__(self)

            self.skip_files |= set(['intro.xml'])
```

self.skip_dirs |= set([  
    # Contains automatically-generated sources.  
    'html',

    # The testsuite data files shouldn't be changed.  
    'data',

    # Contains imported images  
    'images',
])

self.own_files |= set([  
    # Contains markup around the copyright owner.  
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc1')
        # libcilkrt is imported from upstream.
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
self.add_dir('libquadmath')
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'include',
'libada',
'libatomic',
'libbacktrace',
'libcc1',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libhsail-rt',
'libiberty',
'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'lto-plugin',
]

GCCCmdLine().main()

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iconv (Charset Conversion Library) v2.0

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Ty Coon, President of Vice

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1.3514.1 Available under license:
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    No license file was found, but licenses were detected in source scan.

    License: MIT License
    Description: netifaces 0.10.4
    =============
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::

```bash
tar xvzf 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::

```python
>>> import netifaces

>>> 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

```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'}]}
```

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::
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
>>> 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

```python
>>> addrs[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
>>> 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.

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.

3. This is great! What platforms does it work on?

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.

4. What license is this under?

It's an MIT-style license. Here goes:

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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
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/PKG-INFO

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No license file was found, but licenses were detected in source scan.

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?
--------------

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be a package you can easy_install that will take care of working out the
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writing Python code without concerning yourself with the nitty gritty of
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First you need to install it, which you can do by typing::

tar xvzf 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' } ],
       { '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::

{ 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).

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18

Again, on your system, the number may be different.

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>>> 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
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>>> 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':
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[{'addr': '00:12:34:56:78:9a'}]
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```python
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```

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/README.rst

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