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If such an object file uses only numerical parameters, data
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a) Accompany the work with the complete corresponding
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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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car-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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1.5 python-cryptography 2.7 r0

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1.6 json-c 0.13.1 r0

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1.7 pytz 2019.2-r0

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1.8 pretend 1.0.9-r0

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with open("README.rst") as f:
    readme = f.read()

setup(
    version="1.0.9",
    name="pretend",
    description="A library for stubbing in Python",
    long_description=readme,
    author="Alex Gaynor",
    author_email="alex.gaynor@gmail.com",
    py_modules=["pretend"],
    url="https://github.com/alex/pretend",
    license="BSD",
    classifiers=[
        "Development Status :: 5 - Production/Stable",]
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* /opt/cola/permits/1184058624_1631086010.37/0/ceb14bc6169dc46d3eae2d01888b9810dbec2151pretend-1-0-9-tar-gz/pretend-1.0.9/setup.py
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Pretend is a library to make stubbing with Python easier.

What is stubbing?
--------------

Stubbing is a technique for writing tests. You may hear the term mixed up with mocks, fakes, or doubles. Basically a stub is an object that returns pre-canned responses, rather than doing any computation.

Martin Fowler does a good job explaining the terms in his `Mocks Aren't Stubs`_ article.

.. _`Mocks Aren't Stubs`: http://martinfowler.com/articles/mocksArentStubs.html

How do I install ``pretend``?
-----------------------------

It's easy with ``pip``!

.. code:: bash

    $ pip install pretend

How do I use ``pretend``?
------------------------

It's easy, the ``stub`` function makes it easy to create a stub:

.. code:: pycon
>>> from pretend import stub
>>> x = stub(country_code="US")
>>> some_function(x)

Here `x` will be an object with a single attribute `country_code` which has the value `"US"`. Unlike mocks, `x` will not respond to any other attribute or methods, nor does it have any methods for making assertions about what you accessed.

If you want to add a method to the stub, simply provide a function to it:

.. code:: pycon

    >>> from pretend import stub
    >>> x = stub(country_code=lambda: "US")
    >>> x.country_code()
    'US'

It's important to note that functions on stubs *do not* take a `"self"` argument, this is because stubs should be returning pre-canned values, not doing computations.

Exceptions with `"pretend"`
---------------------------

Sometimes a method you want to stub doesn't return a value, but instead raises an exception. To make this easy, `"pretend"` provides a helper function, `"raiser"`, it can be used like so:

.. code:: pycon

    >>> from pretend import stub, raiser
    >>> x = stub(func=raiser(ValueError))
    >>> x.func()
    Traceback (most recent call last):
      File "<stdin>", line 1, in <module>
      File "pretend.py", line 74, in inner
        raise exc
    ValueError

Why is stubbing better?
----------------------

Ideally stubbing tests how your system responds to a particular input, rather than which API is used. Stubbing still requires you to write tests that check the results of a computation, rather than looking for side effects. This doesn't always work though, so you do sometimes still need mocking (e.g. sometimes you really want to check for a side effect.)
How do I get my stub into place?
----------------------------------

If you come from other mocking libraries you're probably used to a `patch` method to put a mock in place. `pretend` doesn't include anything like this, a) we believe it's better, where possible, to pass stubs as arguments rather than monkey patch them into place, b) we believe that when you do need to monkey patch something into place you should use something provided by your testing tool. `py.test` includes `such a tool`_.

.. _`such a tool`: http://pytest.org/latest/monkeypatch.html

What if I really need to record the calls?
------------------------------------------

If you really really need to, `pretend` includes a `call_recorder` utility:

.. code:: pycon

   >>> from pretend import call_recorder, call
   >>> f = call_recorder(lambda a: a + 2)
   >>> f(3)
   5
   >>> assert f.calls == [call(3)]

Who wrote this?
--------------

`pretend` is by Alex Gaynor, who was just tired of not having a good stubbing tool for Python. The name is from Idan Gazit.

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1.9 python3-pyang 2.2.1 r0

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1.10 libgpiod 1.4.1 r0
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That's all there is to it!
## python-importlib-metadata

**Version:** 0.23

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*/

1.14 python3-jinja2 2.11.2 r0

1.14.1 Available under license:
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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/1155142552_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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

Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
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`:

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


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

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```
Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

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

Found in path(s):
* /opt/cola/permits/1155142552_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1155142552_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

1.15 glib 2.56.4-9.el8

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Version 2.1, February 1999

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1.18 lxml 4.4.1-r0

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1.19 libcheck 0.12.0 r0

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1.21 python-wcwidth 0.1.7 r0

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1.23 urllib3 1.25.8-r0

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# Contributions to the urllib3 project

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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

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

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

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

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

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

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

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

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

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

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* Correct six.moves conflict
* Fixed pickle support of some exceptions

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

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

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

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

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  * Added HTTPS (CONNECT) proxy support

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

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

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

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

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

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

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

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

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

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

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

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

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

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

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

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

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

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

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

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

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

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

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

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.
* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <s6yglez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ```util.selectors._fileobj_to_fd``` to accept ```long```
  * Update appveyor tox setup to use the 64bit python.

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.24 pytest 5.1.3-r0

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1.25 nfs-utils 2.5.1 r0

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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1.31 openssl-libs 1.0.2k-19.el7

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1.35 dbus-common 1:1.12.8-12.el8

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**1.50 libusb 1.0.22 r0**

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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
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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DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.52 compiler 9.0.1 r0

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; NOTE: Assertions have been autogenered by utils/update_llc_test_checks.py
; RUN: llc < %s -nmtriple=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 -nmtriple=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
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*/

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  VECE64-LABEL: 'zext64'
  VEC256-LABEL: 'zext256'
  VEC128-LABEL: 'zext128'

  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" {
  VECE128-LABEL: 'zext128'
  VECE64-LABEL: 'zext64'
  VEC256-LABEL: 'zext256'
  VEC128-LABEL: 'zext128'

  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
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

 ; 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
}
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

};

%A = sext <8 x i16> undef to <8 x i64>
%B = sext <8 x i32> undef to <8 x i64>
%C = sext <16 x i8> undef to <16 x i32>
%D = sext <16 x i16> undef to <16 x i32>
%E = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {

; 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 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undefined to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC256-LABEL: 'sext256'

; 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

; VEC512-LABEL: 'sext256'

; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %A = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %B = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %C = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %D = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %E = sext <32 x i8> undef to <32 x i16>

; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <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 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

 ; SKX256-LABEL: 'sext512'
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 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>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

 ; VEC512-LABEL: 'sext512'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 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>

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%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 -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: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #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
}

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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" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "ihumbv6m-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.
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 805873688 to i8*)
  store i8 %2, i8* inttoptr(i32 805873719 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: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = add i32 %[[C2]], 4
; CHECK-NEXT: %5 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %6 = load volatile i16, i16* %5, align 2
; CHECK-NEXT: %7 = add i32 %[[C2]], 32
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = add i32 %[[C2]], 62
; CHECK-NEXT: %11 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %12 = load volatile i16, i16* %11, align 2
; CHECK-NEXT: %13 = add i32 %[[C2]], 22
; CHECK-NEXT: %14 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %15 = load volatile i16, i16* %14, 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 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = add i32 %[[C2]], 124
; CHECK-NEXT: %5 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %6 = load volatile i32, i32* %5, align 4
; CHECK-NEXT: %7 = add i32 %[[C2]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = add i32 %[[C2]], 6
; CHECK-NEXT: %11 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %12 = load volatile i32, i32* %11, align 4

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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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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

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lldbCore
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lldbSymbol

LINK_COMPONENTS
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)
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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
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end:                                 ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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THE SOFTWARE.

; 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:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq

%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:   vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
  ; CHECK-NEXT: 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, 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, 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, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
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:  v movdqa (%rdi), % ymm0
  ; CHECK-NEXT:  v movdqa 32(%rdi), % ymm1
  ; CHECK-NEXT:  v pmaddwd 32(%rsi), % ymm1, % ymm1
  ; CHECK-NEXT:  v pmaddwd (%rsi), % ymm0, % ymm0
  ; CHECK-NEXT:  v movdqa % ymm0, (%rdx)
  ; CHECK-NEXT:  v movdqa % ymm1, 32(%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:  v movdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  v pmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  v movdqa64 %zmm0, (%rdx)
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:    vzeroupper
; CHECK-NEXT:    retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:
  # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width=""256"" {
  ; CHECK-LABEL: @_Z9test_charPcS_i_256:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB8_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
  ; 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: 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: vpmovsxbw 16(%rsi,%rcx), %ymm3
  ; CHECK-NEXT: vpaddd %ymm0, %ymm4, %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: vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
  ; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
  ; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
  ; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
  ; 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 i8* [ %32 x i32 ] [ %index, %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* %6, 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 %vector.body, label %middle.block

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

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> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3

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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, 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, 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.rdx1, <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

%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 1, 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

%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 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

%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19

%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

}
; 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 %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
; CHECK-NEXT: vpsubfd { [...+]} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
; 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> [ zeroinitialize, %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 = sext <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 = sext <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> zeroinitialize, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %lcssa = phi <16 x i32> [ %10, %vector.body ]
  %rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

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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:    vpaddd %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 %xmm1, %xmm0, %xmm0
 ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
 ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
 ; 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 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> zeroinitialize, %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>
%bin.rdx = add <16 x i32> %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 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 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: vpmovwm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtvdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovwm2d %k0, %ymm1
    ; CHECK-NEXT: vcvtvdq2ps %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, zeroinitialize
    %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 %xmm0, %ymm3
  ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
  ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
  ; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
  ; CHECK-NEXT:  vmoveps %ymm3, (%rdi)
  ; CHECK-NEXT:  vmoveps %ymm0, 96(%rdi)
  ; CHECK-NEXT:  vmoveps %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, %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 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" {
    ...}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ...}
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: vminvodm %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrlq $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdp2d %ymm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcmppdp2d %ymm0, %ymm0
; CHECK-NEXT: vminvodm %ymm2, %k0
; CHECK-NEXT: vpsrlq $31, %ymm2, %ymm2
; CHECK-NEXT: vcmppdp2d %ymm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
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: vminvodm %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vcmppdp2d %zmm0, %zmm0
; CHECK-NEXT: vminvodm %zmm2, %k0
; CHECK-NEXT: vpsrlq $31, %zmm2, %zmm2
; CHECK-NEXT: vcmppdp2d %zmm2, %zmm2
; CHECK-NEXT: vcmppdp2d %zmm2, %zmm2
; CHECK-NEXT: vmovaps %zmm2, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%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-
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: vcvtps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtps2dq 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: vcvtps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vcvtps2dq 32(%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %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_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: vcvtps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtps2dq 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" { ...}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { ...}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    %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
}
55,255,255,255,255,255,255,255
; CHECK-NEXT:  vpand %zmm3, %zmm2, %zmm2
; CHECK-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],
  zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
  zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],
  zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
  zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[51],
  zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55],
; CHECK-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%0 = load <64 x i8>, <64 x i8>* %a
%1 = load <64 x i8>, <64 x i8>* %b
%2 = mul <64 x i8> %0, %1
store <64 x i8> %2, <64 x i8>* %c
ret void
}

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:  vpbendmd (%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>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}

declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

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; 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
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val) #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_prefer512(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<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
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
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 promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_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
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #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) #1 {
  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 not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
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
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_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
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  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 = 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
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  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 {
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```c
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
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
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_legal512_prefer256(<8 x i64>* %arg) #3 {
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_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
}

; 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" }
```
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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.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @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 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===
== Notes for sample patch email ==

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

== Definitions for sample patch email ==

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

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====================================================  
= Change Description / Commit Message / Patch Email =  
=====================================================  

Your change description should use the standard format for a commit message, and must include your “Signed-off-by” signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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/*

*/

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{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
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**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
License-History.txt

This file contains the history of license change and contributor's agreement changes.

Unless otherwise noted in a specific file, the EDK2 project is now licensed under the terms listed in the License.txt file. Terms under which Contributions made prior to the move to the License.txt formulation are shown below. Those terms require notice of the terms themselves be preserved and presented with the contributions. This file serves that preservation purpose as a matter of
documenting the history of the project.

Key Dates
--------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
- https://opensource.org/licenses/BSD-2-Clause
- Complete text of TianoCore Contribution Agreement 1.0 included below
- Complete text of TianoCore Contribution Agreement 1.1 included below

Proposals (RFCs):
- https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
- https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions using other licenses might be accepted, but further review will be required.

=====================================================  
= Change Description / Commit Message / Patch Email =  
=====================================================  

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
line following [Repository/Branch PATCH]. The remaining portion of the
commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

```
=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
made under the terms of the contribution agreement. This
agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
by their real/legal name and their email address.
```

```

= TianoCore Contribution Agreement 1.1 =

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* Language. This Agreement is in the English language only, which language shall be controlling in all respects, and all versions of this Agreement in any other language shall be for accommodation only and shall not be binding. All communications and notices made or given pursuant to this Agreement, and all documentation and support to be provided, unless otherwise noted, shall be in the English language.

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Contributions.txt: TianoCore Contribution Agreement 1.0

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= Code Contributions =

---

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by” signature, and "Contributed-under” message.
3. Your "Contributed-under” message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under” message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement” is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
Full-commit-message
Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---
An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===
* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

========================================
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-- Wolfgang Denk

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Fabrice Bellard and the QEMU team

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
+    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
        @ @ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c	20 Mar 2008 15:48:34 -0000	1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
 M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
 + }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+
+/**************************************************************************/
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+**************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+    // perform the byte swap
+    s32 temp = reg;
+    reg = (temp & 0xFF000000) >> 24;
+    reg |= (temp & 0xFF0000) >> 8;
+    reg |= (temp & 0xFF00) << 8;
+    reg |= (temp & 0xFF) << 24;
+    return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{ /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\n");
+    switch (op2) {
+        case 0x0F:
+        case 0x0C8:
+        case 0xCF:
+        case 0x0C9:
+        case 0x0CD:
+        case 0x0CE:
+        case 0x0CF:
+        case 0x0D0:
+        case 0x0D1:
+        case 0x0D2:
+        case 0x0D3:
+        case 0x0D4:
+        case 0x0D5:
+        case 0x0D6:
+        case 0x0D7:
+        case 0x0D8:
+        case 0x0D9:
+        case 0x0DA:
+        case 0x0DB:
+        case 0x0DC:
+        case 0x0DD:
+        case 0x0DE:
+        case 0x0DF:
+            DECODE_PRINTF("BSWAP\n");
+            break;
+        default:
+            DECODE_PRINTF("BSWAP\n");
+            break;
+    }
+}
+ case 0xc8:
  + DECODE_PRINTF("EAX\n");
  + M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
  + break;
  + case 0xc9:
  + DECODE_PRINTF("ECX\n");
  + M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
  + break;
  + case 0xca:
  + DECODE_PRINTF("EDX\n");
  + M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
  + break;
  + case 0xcb:
  + DECODE_PRINTF("EBX\n");
  + M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
  + break;
  + case 0xcc:
  + DECODE_PRINTF("ESP\n");
  + M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
  + break;
  + case 0xcd:
  + DECODE_PRINTF("EBP\n");
  + M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
  + break;
  + case 0xce:
  + DECODE_PRINTF("ESI\n");
  + M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
  + break;
  + case 0xcf:
  + DECODE_PRINTF("EDI\n");
  + M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
  + break;
  + }
  + TRACE_AND_STEP();
  + DECODE_CLEAR_SEGOVR();
  + END_OF_INSTR();
}
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACEnAND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
+ DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACEnAND_STEP();
- if (cond)
+ if (cond) {
 M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */

/* move them until CX is ZERO. */
count = M.x86.R_CX;
/* move them until (E)CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
/* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val1 = fetch_data_byte(M.x86.R_SI);
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-            /* move them until CX is ZERO. */
-            while (M.x86.R_CX != 0) {
+            /* move them until (E)CX is ZERO. */
+            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                    val1 = fetch_data_long(M.x86.R_SI);
                    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                } else {
                    val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_word((u16)val1, (u16)val2);
                }
                M.x86.R_CX -= 1;
                if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_SI += inc;
                M.x86.R_DI += inc;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+                if (M.x86.intr & INTR_HALTED)
+                    break;
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
    }
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - if (M.x86.R_CX != 0) {
      + /* move them until CX is ZERO. */
      + while (M.x86.R_CX != 0) {
          + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
              store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
              store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_DI);
              M.x86.R_CX -= 1;
          } else {
              M.x86.R_CX = 0;
          }
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    @ @ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - count = M.x86.R_CX;
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        + if (M.x86.R_CX != 0) {
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX = 0;
            else
                M.x86.R_CX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
    }
    @ @ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
} else {
    @ @ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
                store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_DI);
                M.x86.R_CX -= 1;
            } else {
                M.x86.R_CX = 0;
            }
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    @ @ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        count = M.x86.R_CX;
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
        }
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
}

inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    while (M.x86.R_CX != 0) {
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
        }
    }
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
M.x86.R_CX -= 1;

if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R ECX -= 1;
else
    M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    -/* move them until CX is ZERO. */
    -while (M.x86.R_CX != 0) {
    +/* move them until (E)CX is ZERO. */
    +while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_databyte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -M.x86.R_CX -= 1;
        +if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        +else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
        +if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    -/* move them until CX is ZERO. */
    -while (M.x86.R_CX != 0) {
    +/* move them until (E)CX is ZERO. */
    +while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
@@ -2960,16 +3012,21 @@
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
break;
if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
break; /* zero flag set means equal */
if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
break; /* zero flag set means equal */
if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();

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END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))      /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }    
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}    
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c16 Jan 2008 14:18:15 -00001.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

*res_lo = (u32)res;
*res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
M.x86.R_EAX = (u32)res;
M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {

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M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
+-#include "io.h"
-#else
-+#include <sys/io.h>
-+#endif

+#ifdef IN_MODULE
+#include "xf86_ansic.h"
@@ -220,7 +215,7 @@

 DB(if (DEBUG_IO_TRACE())
 printk("inb %04x \n", addr;)
 -return inb(addr);
+return 0;
void X86EMU_setMemBase(void *base, size_t size)
M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}
Index: include/x86emu/debug.h

--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -00001.4
@@ -40,8 +40,6 @@
#define ___X86EMU_DEBUG_H
#define ___X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG

    #define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
    #define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
    #define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
    +#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
    +#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
    #define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
    #define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
    #define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)

x86emu_dump_regs();                                 
if (DEBUG_TRACECALL())                                 
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);  
-# define RETURN_TRACE(n,u,v)
-# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
  x86emu_dump_regs();                                 

if (DEBUG_TRACECALL())
  
-printk("%04x:%04x: %s\n",u,v,n);
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+  x86emu_dump_regs();
+  if (DEBUG_TRACEJMP())
+    printk("%04x:%04x: RET %s %04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifndef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
+# define SYSMODE_32BIT_REP       0x00000800
+# define SYSMODE_INTR_PENDING    0x10000000
+# define SYSMODE_EXTRN_INTR      0x20000000
+# define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
        SYSMODE_EXTRN_INTR
        SYSMODEIALIZED_INTR
        SYSMODE_HALT
+    SYSMODE_PREFERRED_ADDR)
+    SYSMODE_32BIT_REP)
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
/*
  u32                         mode;
  volatile int                intr; /* mask of pending interrupts */
int debug;

volatile int debug;

#ifdef DEBUG
int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
#endif /* __X86EMU_X86EMU_H */

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History
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1.55 idna 2.9-r0

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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 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:
Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel`` functions if necessary:

```python
# 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.

```python
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
```
```python
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
```

```python
>>> idna.encode('Königsgäßchen', uts46=True)
'b'xn--knigsgchen-b4a3dun'
```

```python
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

```python
...
```

```python
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
```
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.

```py
# 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.

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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, CONTEXTU) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org/>`_.

* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
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.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1184059168_1631085973.14/0/26888350af0fda89e0c284225da98f3aed5d4ba1idna-2-9-targz/idna-2.9/setup.py

1.56 coreutils-common 8.30-8.el8

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* GSS-API Programming Guide
* Part No: 816-1331-11
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   Network Working Group   H. Krawczyk
   Request for Comments: 2104   IBM
   Category: Informational   M. Bellare
       UCSD
       R. Canetti
       IBM
   February 1997

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

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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concluded that weaker conditions might promote sharing better.

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permit developers of non-free programs to use free libraries, while
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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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That's all there is to it!

1.65 shadow-utils 2:4.6-12.el8

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 * pw.h
 *
 * Password routines, adopted from IOX
 *
 * May 2000 Mark Eklund
 * July 2005, Craig MacFarlane
 *
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/*
 * edt: * pw_type_t
 * Possible formats of saving the password in SysDB.
 *
 * item: PW_TYPE_CLEAR
 * The password in the clear, visible for anybody.
 *
 * item: PW_TYPE_1WAY
 * The password encrypted to an MD5 digest. This is not reversible.
 *
 * item: PW_TYPE_1WAY_2
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 *
 * item: PW_TYPE_2WAY
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 * by both Cisco products and several public domain programs.
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 * pw.c
 *
 * AAA password routines, adopted from IOX
 *
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 *
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 *
 * ***********************************************************************
 * pw.c -- password encryption/decryption routines
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 * May 08 2000, Mark Eklund
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*
* Password defines.
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* pw_const.tph
*
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*
*/

@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
} @

@IMPORT_STG{
    import "constant_gen.stg";
} @

@TDL{
    import "pw_const.tdl"
} @

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

$constant_generate()$

}
#endif /* __TDLC_GEN_PW_CONST_H__ */

}@

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1.72 wget 1.20.3 r0

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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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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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uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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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For an executable, the required form of the "work that uses the
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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
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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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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!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

-------------------------------------
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

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> To: Neulinger, Nathan
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> Subject: Re: [Cracklib-devel] cracklib license
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Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writers what license they should be using.

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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I am sympathetic. Guys, what do you reckon?

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-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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My apologies for not chiming in in anything resembling a reasonable timeframe.

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

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

Cheers,

Nalin

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
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Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSvc(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
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-a
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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 3a0982da308228d796df35f98d787c5cffe83bb5b6.

  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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<!- $Id$ -->

<!-- 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: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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1.92 fipscheck 1.4.1-6.el7

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 *-----------------------------------------------------------------------------
 * erp_cfg_parser.c - ERP config parser code
 *
 * August 2011
 *
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 *-----------------------------------------------------------------------------
 */

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/*
 *-----------------------------------------------------------------------------
 * erp_io_pak.c - ERP IO packet handling source file
 *
 * August 2010, Ramachandran Ramanujalu
 *
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 *-----------------------------------------------------------------------------
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# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
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#
name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;

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/*
*------------------------------------------------------------------
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
* 
* July 2010, Viet Nguyen
* 
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*------------------------------------------------------------------
*/

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* G.8032 ERP Controller state machine
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*/

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* erp_io_ha.c - ERP IO HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
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* G.8032 ERP IO state machine
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* erp_ctrl.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
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*------------------------------------------------------------------

XOS_SM_EVENTLIST_BEGIN
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END

/*
 * State machine states
 * - Init,
 * - A_Idle,
 * - B_Protection,
 * - C_ManualSwitch,
 * - D_ForcedSwitch,
 * - E_Pending
 */

XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
  XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_STATE_END
B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END
XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
                    E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
                    E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
                    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
                    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_ack, E_Pending) /* wait ack */
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

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* /opt/cola/permits/1210918790_1633473603.25/o/dnf-tar/src/erp_ctrl.sm
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/***********************************************************************/
* erp_pd_caps_stubs.c - ERP Controller stub file
* *
* July 2010, Ramachandran Ramanujalu
* *
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

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/**********************************************************************/
* erp_pdb.h
* *
* G.8032 Profile Database
* *
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

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/*
*------------------------------------------------------------------
* erp_debug.c - G.8032 Ethernet Ring Protection debug routines
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

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/*
*------------------------------------------------------------------
* erp_io.sm - Ethernet Ring Protection Controller state machine
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

XOS_SM_EVENTLIST_BEGIN
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END

/*
* State machine states
* - Init,
* A_Idle,
* B_Protection,
* C_ManualSwitch,
* D_ForcedSwitch,
* E_Pending
*/

XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, C_ManualSwitch)
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, D_ForcedSwitch)
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, E_Pending)
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

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* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_io.sm
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/*
 *--------------------------------------------------------------
 * erp_ctrl_ha.c - ERP Controller HA common code
 *
 * Sep 2010, Ramachandran Ramanujalu
 *
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 *--------------------------------------------------------------
 */

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/*
 *--------------------------------------------------------------
 * erp_ctrl.c - ERP Controller common code
 *
 * July 2010, Viet Nguyen
 *
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 *--------------------------------------------------------------
 */

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* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ctrl.c

1.94 wcwidth 0.1.7-r0

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1.99 python-ply 3.11 r0

1.100 less 551 r0
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1.101 libroxml 2.3.0 r0

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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)),
      ),
      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)
```
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 at GitHub or post your question on Stack Overflow or try browsing pyasn1 mailing list archives.

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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.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 <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 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
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.

License

The PyASN1 software is distributed under 2-clause BSD License.

Getting help

Please, file your issues at GitHub. Alternatively, you could ask for help at Stack Overflow or search mailing list archive.
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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-->

<!-- $Id: lwres_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
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<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsis>
<funcdef>
void
<function>lwres_conf_init</function>
</funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
</funcprototype>
<funcprototype>
<funcdef>
void

<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
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<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by that
<type>lwres_conf_t</type>
structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file
<parameter>filename</parameter>
and parses it to initialise the resolver context
<parameter>ctx</parameter>’s
<type>lwres_conf_t</type>
structure.
</para>
<para>
<function>lwres_conf_print()</function>
prints the
<type>lwres_conf_t</type>
structure for resolver context
<parameter>ctx</parameter> to the
<type>FILE</type>
<parameter>fp</parameter>.
</para>
</refsect1>
</refsect1>

<title>RETURN VALUES</title>
<para>
<function>lwres_conf_parse()</function> returns
<errorcode>LWRES_R_SUCCESS</errorcode> if it successfully read and parsed
<parameter>filename</parameter>. It returns
<errorcode>LWRES_R_FAILURE</errorcode> if
<parameter>filename</parameter> could not be opened or contained incorrect
resolver statements.
</para>
<para>
<function>lwres_conf_print()</function> returns
<errorcode>LWRES_R_SUCCESS</errorcode> unless an error occurred when converting the network addresses to a
numeric host address string. If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
</refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<refentry>
<refentrytitle>resolver</refentrytitle>
<manvolnum>5</manvolnum>.
</refentry>
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/buffer.h
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* "abc"
* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedecedor
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" The following six UNCOMMENTED lines are required.
"Os OPERATING_SYSTEM [version/release]
"Dt DOCUMENT_TITLE [section number] [volume]
" The following requests should be uncommented and
" used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf/stderr type diagnostics)
" .Sh DIAGNOSTICS
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/pthreads/include/isc/condition.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/null_10.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/mutex.h
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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

 ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H

***** Platform-dependent defines.
*****

/*** Network.
***/

/* Define if this system needs the <netinet/in6.h> header file for IPv6.
*/
/*
 * Define if this system needs the <netinet/in6.h> header file for IPv6.
 */
@LWRES_PLATFORM_NEEDINET6IN6H@

/*
 * If sockaddr on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
 * will be defined.
 */
@LWRES_PLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
 * will be defined.
 */
@LWRES_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 */
@LWRES_PLATFORM_HAVEINADDR6@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@LWRES_PLATFORM_NEEDSYSESELECTH@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@LWRES_PLATFORM_USEDECLSPEC@
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif
#endif /* LWRES_PLATFORM_H */

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 * msg_eventlib.c - Error messages for evlib
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AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in 
"
)  
AC_MSG_ERROR([ar program not found. Please fix your PATH to include the directory in 
which ar resides, or set AR in the environment with the full path to ar. 
])
:: esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-ettes)

# # Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
# if test "X$ETAGS" != "X"; then
AC_MSG_CHECKING(for Exuberant Ctags etags)
if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
else
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
# AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

# # isc/list.h and others clash with the rest of BIND 9
# case "$includedir" in
  '${prefix}/include'
includedir='${prefix}/bind/include'
::
esac
case "$libdir" in
 '${prefix}/lib')
libdir='${prefix}/bind/lib'
::
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
::
*)
#
# Not all systems have dirname.
#
changequote({, })
ac_dir="`echo $INSTALL | sed 's/%[^[^/]*^[^%]%$'`
changequote([, ])

ac_prog="`echo $INSTALL | sed 's%.*%"%''
test "$ac_dir" = "$ac_prog" & & ac_dir=.
test -d "$ac_dir" & & ac_dir="`(cd "$ac_dir" & & pwd)`" INSTALL="$ac_dir/$ac_prog"
::
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found.  The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-*dec-osf*)
CC="cc"
::
*-solaris*)

# Use Sun's cc if it is available, but watch
# out for /usr/ucb/cc; it will never be the right
# compiler to use.
#
# If setting CC here fails, the AC_PROG_CC done
# below might still find gcc.
IFS="${IFS=}"; ac_save_ifs="$IFS"; IFS="::
for ac_dir in $PATH; do
test -z "$ac_dir" && ac_dir=.
case "$ac_dir" in
/usr/ucb)
# exclude
::
*)
if test -f "$ac_dir/cc"; then
CC="$ac_dir/cc"
b国际合作
fi
::
esac
done
IFS="$ac_save_ifs"
::
*-hp-hpux*)
CC="cc"
::
mips-sgi-irix*)
CC="cc"
::
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
# case $ac_cv_header_unistd_h in
yes)
    AC_MSG_CHECKING(if unistd.h defines fd_set)
    AC_TRY_COMPILE( 
        #include <unistd.h>, 
        [fd_set read_set; return (0);],
        [AC_MSG_RESULT(yes)
          ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
        ],
        [AC_MSG_RESULT(no)
          case ac_cv_header_sys_select_h in
            yes)
              ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
            ;;
            no)
          AC_MSG_ERROR([need either working unistd.h or sys/select.h])
          ;;
          esac
          ])
        ;;
        no)
    case ac_cv_header_sys_select_h in
        yes)
          ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
        ;;
        no)
      AC_MSG_ERROR([need either unistd.h or sys/select.h])
      ;;
      esac
      ;;
      esac
    AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)
    
    # Find the machine's endian flavor.
    #
    AC_C_BIGENDIAN
    
    AC_ARG_WITH(irs-gr, [ --with-irs-gr	Build ....],
        want_irs_gr="$withval", want_irs_gr="no")
    case "$want_irs_gr" in
        yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
            WANT_IRS_GR_OBJS="$[WANT_IRS_GR_OBJS]"
        ;;
        *) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
        esac
    AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pwBuild ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
  yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
      WANT_IRS_PW_OBJS="${WANT_IRS_PW_OBJS}";;
  *) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nisBuild ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
  yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="${WANT_IRS_NIS_OBJS}""
    case "$want_irs_gr" in
      yes)
        WANT_IRS_NISGR_OBJS="${WANT_IRS_NISGR_OBJS}""
      *)
        WANT_IRS_NISGR_OBJS="";;
esac
    esac
  *)
    WANT_IRS_NISGR_OBJS="";;
esac
    case "$want_irs_pw" in
      yes)
        WANT_IRS_NISPW_OBJS="${WANT_IRS_NISPW_OBJS}""
      *)
        WANT_IRS_NISPW_OBJS="";;
esac
    ;;
  *)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""
    WANT_IRS_NISGR_OBJS=""
    WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE DB_H
  int have_db_h = 1;
#else
  int have_db_h = 0;
#endif
  main() { return(!have_db_h); }]
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[  --with-randomdev=PATH Specify path for random device],
  use_randomdev="$withval", use_randomdev="unspec")
case "$use_randomdev" in
  unspec)
    case "$host" in
      -*openbsd*)
      devrandom=/dev/srandom
      ;;
      *)
      devrandom=/dev/random
      ;;
      esac
    AC_MSG_RESULT($devrandom)
    AC_CHECK_FILE($devrandom,
      AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
        "$devrandom" ),)
    ;;
    yes)
    AC_MSG_ERROR([--with-randomdev must specify a path])
    ;;
    *)
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
    AC_MSG_RESULT(using "$use_randomdev")
    ;;
    esac
    ;;
  esac
 AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
      "$devrandom" ),)
    ;;
    yes)
    AC_MSG_ERROR([--with-randomdev must specify a path])
    ;;
    *)
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
    AC_MSG_RESULT(using "$use_randomdev")
    ;;
    esac

## Begin pthreads checking.
##
## First, decide whether to use multithreading or not.
##
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
  yes")
    AC_MSG_RESULT(yes)
    use_threads=true
    ;;
  no)
    AC_MSG_RESULT(no)
    use_threads=false
    ;;
  *)
    AC_MSG_ERROR([--enable-threads takes yes or no])
    ;;
esac

if $use_threads
then
  #
  # Search for / configure pthreads in a system-dependent fashion.
  #
  case "$host" in
    *-netbsd*)
      # NetBSD has multiple pthreads implementations. The
      # recommended one to use is "unproven-pthreads". The
      # older "mit-pthreads" may also work on some NetBSD
      # versions. The PTL2 thread library does not
      # currently work with bind9, but can be chosen with
      # the --with-ptl2 option for those who wish to
      # experiment with it.
      CC="gcc"
      AC_MSG_CHECKING(which NetBSD thread library to use)
      AC_ARG_WITH(ptl2,
      [ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
      use_ptl2="$withval", use_ptl2="no")
      
      : ${LOCALBASE:=/usr/pkg}

      if test "X$use_ptl2" = "Xyes"
      then
        AC_MSG_RESULT(PTL2)
        AC_MSG_WARN([linking with PTL2 is highly experimental and not expected to work])
        CC=ptlgcc
      else
        if test ! -d $LOCALBASE/pthreads
        then
          AC_MSG_RESULT(none)
        fi
      fi
  esac
use_threads=false
fi

if $use_threads
then
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
 pkg="$LOCALBASE/pthreads"
 lib1="-L$pkg/lib -Wl,-R$pkg/lib"
 lib2="-lpthread -lm -lgcc -lpthread"
 LIBS="$lib1 $lib2 $LIBS"
 CPPFLAGS="$CPPFLAGS -I$pkg/include"
 STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
 fi
fi
:: *
AC_CHECK_LIB(pthread, pthread_create,)
AC_CHECK_LIB(pthread, __pthread_create,)
AC_CHECK_LIB(pthread, __pthread_create_system,)
AC_CHECK_LIB(c_r, pthread_create,)
AC_CHECK_LIB(c, pthread_create,)
use_threads=false))
::
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),)
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)
#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
# # One more place to look for sigwait.
#-*-freebsd*)
AC_CHECK_LIB(c-r, sigwait, ACDEFINE(HAVE_SIGWAIT),)
;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsd3.*|*-bsd4.0*)
ACDEFINE(NEED_PTHREAD_INIT)
;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
ACDEFINE(HAVE_LINUXTHREADS)
;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
ACDEFINE(_POSIX_PTHREAD_SEMANTICS)
ACCHECK_FUNC(pthread_setconcurrency,
   ACDEFINE(CALL_PTHREAD_SETCONCURRENCY))
ACDEFINE(POSIX_GETPWUID_R)
ACDEFINE(POSIX_GETPWNAM_R)
ACDEFINE(POSIX_GETGRGID_R)
ACDEFINE(POSIX_GETGRNAM_R)
;;
*hpux11*)
ACDEFINE(_PTHREADS_DRAFT4)
;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
ACDEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
ACCHECK_FUNC(sysconf, ACDEFINE(HAVE_SYSCONF),)
if test "X$GCC" = "Xyes"; then
case "$host" in
 *-freebsd*)
  CC="$CC -pthread"
  CCOPT="$CCOPT -pthread"
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
 ;; *-openbsd*)
  CC="$CC -pthread"
  CCOPT="$CCOPT -pthread"
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
 ;; *-solaris*)
  LIBS="$LIBS -lthread"
  ;; *-ibm-aix*)
  STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
 ;; esac
else
  case $host in
   *-dec-osf*)
   CC="$CC -pthread"
   CCOPT="$CCOPT -pthread"
   ;; *-solaris*)
   CC="$CC -mt"
   CCOPT="$CCOPT -mt"
   ;; *-ibm-aix*)
   STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
   ;; *-UnixWare*)
   CC="$CC -Kthread"
   CCOPT="$CCOPT -Kthread"
   ;; esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT IRS THREADSGR_objs="'$WANT IRS THREADSGR_objs'" 
WANT IRS THREADSPW_objs="'$WANT IRS THREADSPW_objs'" 
WANT IRS THREADS_objs="'$WANT IRS THREADS_objs'"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT IRS THREADSGR_objs=""
WANT IRS THREADSPW_objs=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
[USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON=""#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON=""#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"].
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

# End of pthreads stuff.
#

# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
case $host in
  *-dec-osf*)
    CC="$CC -std"
    CCOPT="$CCOPT -std"
    MKDEPCC="$CC"
    ;;
  *-hp-hpux*)
    CC="$CC -Ae -z"
    MKDEPCC="$CC -Ae -z"
    # The version of the C compiler that constantly warns about
    # 'const' as well as alignment issues is unfortunately not
    # able to be discerned via the version of the operating
    # system, nor does cc have a version flag.
    case "$CC +W 123 2>&1" in
      *Unknown?option*)
        STD_CWARNINGS="+w1"
        ;;
      *)
        # Turn off the pointlessly noisy warnings.
        STD_CWARNINGS="+w1 +W 474,530"
        ;;
        esac
    esac
    CCOPT="$CCOPT -std"
    LIBS="-Wl,+vnocompatwarnings $LIBS"
    MKDEPPROG='cc -Ae -Wp,-M >/dev/null 2>&1 | awk "" BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
      if (colon && a[$i]) continue; if ($i == "\"") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec ";";
        colon = 1 continue; } if (length(rec $i) > 76) { print rec " "; rec = "$i $i; a[$i] = 1; } else { rec = rec " $i a[$i] = 1;
      fi
    fi
  esac
  esac
  esac
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  esac
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'

;;
#:.*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"

;;
#:.*-solaris*)
MKDEPCFLAGS="-xM"

;;
#:.*-UnixWare*)
CC="$CC -w"

 esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
#:.*-linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"

;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
Open Source Used In IOSXE Releases 17.7.1-RMs  1549

# AC_CHECK_LIB(nsl, inet_ntoa)
#
#
# Use this for now, instead:
#
# case "$host" in
mips-sgi-irix*)
  ;;
* )
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
  [ --with-purify=[PATH][use Rational purify],
use_purify="$withval", use_purify="no"]

case "$use_purify" in
  no)
    ;;
  yes)
AC_PATH_PROG(purify_path, purify, purify)
    ;;
)*
purify_path="$use_purify"
    ;;
esac

case "$use_purify" in
  no)
AC_MSG_RESULT(no)
PURIFY=""
    ;;
  *)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.]
Please choose the proper path with the following command:

```

Please choose the proper path with the following command:

```
configure --with-purify=PATH
})
fi
::
esac

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
    [ --with-libtool use GNU libtool (following indented options supported)],
    use_libtool="$withval", use_libtool="no")

case $use_libtool in
    yes)
        AM_PROG_LIBTOOL
        O=lo
        A=la
        LIBTOOL_MKDEP_SED='s;\o;\lo;'
        LIBTOOL_MODE_COMPILE='--mode=compile'
        LIBTOOL_MODE_INSTALL='--mode=install'
        LIBTOOL_MODE_LINK='--mode=link'
    ::
    *)
        O=o
        A=a
        LIBTOOL=
        AC_SUBST(LIBTOOL)
        LIBTOOL_MKDEP_SED=
        LIBTOOL_MODE_COMPILE=
        LIBTOOL_MODE_INSTALL=
        LIBTOOL_MODE_LINK=
    ::
esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[  --enable-ipv6		use IPv6 [default=autodetect]])

case "$enable_ipv6" in
  yes|''|autodetect)
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>,
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
  found_ipv6=yes],
[AC_MSG_RESULT(no)
  found_ipv6=no])

# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[  --with-kame[=PATH]	use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)

;; yes)
kame_path=/usr/local/v6

;; *
kame_path="$use_kame"

;; esac

case "$use_kame" in
  no)
AC_MSG_RESULT(no)

;; *
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([ $kame_path/lib/libinet6.a not found.])
fi

esac

# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
  *-bsdi4.[01]*)
ISC_PLATFORM_NEEDINET6IN6H="#define ISC_PLATFORM_NEEDINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"

;; *
ISC_PLATFORM_NEEDINET6IN6H="#undef ISC_PLATFORM_NEEDINET6IN6H"
isc_netinet6in6_hack=""

esac
changequote(, )

# This is similar to the netinet6/in6.h issue.
#
case "$host" in
  *-UnixWare*)
  ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
  ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
  isc_netinetin6_hack="#include <netinet/in6.h>"
  ;;
  *)
  ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
  ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
  isc_netinetin6_hack=""
  ;;
esac

# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
  yes)
  HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"
  AC_MSG_CHECKING(for in6_addr)
  AC_TRY_COMPILE([  
    #include <sys/types.h>
    #include <sys/socket.h>
    #include <netinet/in.h>
    $isc_netinetin6_hack
    $isc_netinetin6in6_hack
  ],
  [struct in6_addr in6; return (0);],
  [AC_MSG_RESULT(yes)
    HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
    isc_in_addr6_hack=""],
  [AC_MSG_RESULT(no)
    HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
    isc_in_addr6_hack="#define in6_addr in_addr6"])

  AC_MSG_CHECKING(for in6addr_any)
  AC_TRY_LINK([  
    #include <sys/types.h>
    #include <sys/socket.h>
    #include <netinet/in.h>
    $isc_netinetin6_hack
    $isc_netinetin6in6_hack
  ],
  [struct in6_addr in6; return (0);],
  [AC_MSG_RESULT(yes)
    HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
    isc_in_addr6_hack=""],
  [AC_MSG_RESULT(no)
    HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
    isc_in_addr6_hack="#define in6_addr in_addr6"])
$isc_in_addr6_hack
]
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"]
)

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
]
[struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"]
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
]
[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"]

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
]
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE SOCKADDR_STORAGE="#define HAVE SOCKADDR_STORAGE 1"],
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"

;;

no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"

;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDINETINET6 Nh)
AC_SUBST(ISC_PLATFORM_NEEDINET6Nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(NEED_IN6ADD Nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(ISC_INET6 nh)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])

AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"]).

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1")
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
    #include <sys/types.h>
    #include <netinet/in.h>
    #include <arpa/inet.h>
],
    [inet_pton(0, 0, 0); return (0);],
    [AC_MSG_RESULT(yes)
     ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],
    [AC_MSG_RESULT(no)
     ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
     ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
     ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
    #include <sys/types.h>
    #include <netinet/in.h>
    #include <arpa/inet.h>
],
    [struct in_addr in; inet_aton(0, &in); return (0);],
    [AC_MSG_RESULT(yes)
     ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],
    [AC_MSG_RESULT(no)
     ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
     ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
     ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)
#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
   -*.dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac
AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([#
    #include <sys/types.h>
    #include <sys/socket.h>
],
    [struct sockaddr sa; sa.sa_len = 0; return (0);],
    [AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsd[2345]*)have_minimum_ifreq=yes;;
  -*darwin*)have_minimum_ifreq=yes;;
  -*freebsd*)have_minimum_ifreq=yes;;
  -*lynxos*)have_minimum_ifreq=yes;;
  -*netbsd*)have_minimum_ifreq=yes;;
  -*next*)have_minimum_ifreq=yes;;
  -*openbsd*)have_minimum_ifreq=yes;;
  -*rhapsody*)have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
  yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR

PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"

case "$host" in
  *aix3.2*)PORT_DIR="port/aix32";;
  *aix4*)PORT_DIR="port/aix4";;
  *aux3*)PORT_DIR="port/aux3";;
  -*bsd[2345]*)PORT_DIR="port/bsdos2";;
  -*bsd[1]*)PORT_DIR="port/bsdos";;
  -*cygwin*)PORT_DIR="port/cygwin";;
  -*darwin*)PORT_DIR="port/darwin";;
  -*osf*)PORT_DIR="port/decunix";;
  -*freebsd*)PORT_DIR="port/freebsd";;
  -*hpux9*)PORT_DIR="port/hpux9";;
  -*hpux10*)PORT_DIR="port/hpux10";;
  -*hpux11*)PORT_DIR="port/hpux";;
  -*irix*)PORT_DIR="port/irix";;
  -*linux*)PORT_DIR="port/linux";;
*-lynxs*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.((01234])*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
*-solaris2.5*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*-solaris2.*) BSD_COMP="#define BSD_COMP 1"
PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_TRY_COMPILE([#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#

AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"]
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE(
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"]
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"]
AC_SUBST(ISC_LWRES_SETNETENTINT)
AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
   [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"],
   [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"])
AC_CHECK_FUNC(getnameinfo,
   [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"],
   [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"])
AC_CHECK_FUNC(getaddrinfo,
   [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"],
   [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO" AC_DEFINE(HAVE_GETADDRINFO)]),
   [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1" AC_DEFINE(HAVE_GAISTERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
   [NEED_PSELECT="#define NEED_PSELECT"]),
[NEED_PSELECT="#define NEED_PSELECT"]
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"])
AC_SUBST(HAVE_STRNDUP)
#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
    #include <sys/param.h>
    #include <sys/sysctl.h>
    #include <sys/socket.h>
    ifdef NET_RT_IFLIST
    found_rt_iflist
    endif
],
    [AC_MSG_RESULT(yes)
     AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])
#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)
AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST"])
AC_SUBST(USE_SYSERROR_LIST)
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"'][
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'][
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC.SOCKLEN_T="#define ISC.SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC.SOCKLEN_T="#define ISC.SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC.SOCKLEN_T="#define ISC.SOCKLEN_T unsigned long"]
AC_MSG_RESULT(unsigned long)
,
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
},

[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
})
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],

[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgrouplist,,AC_DEFINE(NEED_SETGROUPLIST))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) {} 
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
]
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
        char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#define NETENT_DATA"
]
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
]

AC_TRY_COMPILE(

#undef __USE_MISC
#define __USE_MISC

#include <netdb.h>

int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
]

{return (0)}.

[ NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
]

AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
  [
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    void setnetent_r(int);
  ],[return (0);],
  NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
  NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
  NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
  [
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int setnetent_r(int, struct netent_data *);
  ],[return (0);],
  NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
  NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
  NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
.
.
.
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
  [
    #undef _REENTRANT
    #define _REENTRANT
    #include <netdb.h>
    extern int endnetent_r();
  ],[return (0);],
  NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
  NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
  NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);

#define NET_R_END_RESULT("#define NET_R_END_RESULT(x) /*empty*/"
#define NET_R_END_RETURN("#define NET_R_END_RETURN void"
)
AC_TRY_COMPILE(

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);

#define NET_R_END_RESULT("#define NET_R_END_RESULT(x) return (x)"
#define NET_R_END_RETURN("#define NET_R_END_RETURN int"
)
AC_TRY_COMPILE(

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);

#define NET_R_END_RESULT("#define NET_R_END_RESULT(x) /*empty*/"
#define NET_R_END_RETURN("#define NET_R_END_RETURN void"
)
)
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,


```c
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
    int buflen) {}
],[return (0)];],
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *

],
)

GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *

AC_DEFINE(NEED_GETGRENT_R)

AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"

AC_DEFINE(NEED_ENDGRENT_R)

AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"

AC_DEFINE(NEED_SETGRENT_R)

AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,

AC_TRY_COMPILE(
[
#undef __USE_MISC

```
```c
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errno) {}

[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent **"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]

AC_TRY_COMPILE(

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const char *name,
        struct hostent *result,
        struct hostent_data *hdptr);

].]
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
]

AC_TRY_COMPILE(

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
        struct hostent *,
        char *, size_t,
        struct hostent **,
        int *);

].]
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
```

Open Source Used In IOSXE Releases 17.7.1-RMs 1569
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"

AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent *
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"

AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC

Open Source Used In IOSXE Releases 17.7.1-RMs 1570
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

AC_TRY_COMPILE(
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void endhostent_r(void);
)

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"

AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE(
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void sethostent_r(int flag, struct hostent_data *ht_data);

    [HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
    HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"]
)

AC_TRY_COMPILE(
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int sethostent_r(int flag, struct hostent_data *ht_data);
)

Open Source Used In IOSXE Releases 17.7.1-RMs 1571
[HOST_R_SET_RESULT=":#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN=":#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE({
#undef_REENTRANT
#define_REENTRANT
#undef__USE_MISC
#define__USE_MISC
#include <netdb.h>
void sethostent_r (int);[]],
[HOST_R_SET_RESULT=":#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN=":#define HOST_R_SET_RETURN void"],
})
})
)
.
HOST_R_SET_RESULT=":#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN=":#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <pwd.h>
 ['./struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
.
AC_MSG_RESULT(no)
})

AC_TRY_COMPILE({
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#define SETPWENT_VOID 1"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
    AC_SUBST(NGR_R_ARGS)
    AC_SUBST(NGR_R_BAD)
    AC_SUBST(NGR_R_COPY)
    AC_SUBST(NGR_R_COPY_ARGS)
    AC_SUBST(NGR_R_OK)
    AC_SUBST(NGR_R_RETURN)
    AC_SUBST(NGR_R_PRIVATE)
    AC_CHECK_FUNC(endnetgrent_r,
      AC_SUBST(NGR_R_END_RESULT)
      AC_SUBST(NGR_R_END_RETURN)
      AC_SUBST(NGR_R_ENT_ARGS)
      AC_DEFINE(NEED_ENDNETGRENT_R)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
    [ case "$host" in
        *bsd*)
            NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
            NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
            ;;
        *)
            NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
            NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
            ;;
        esac
    ]
)

AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,AC_DEFINE(NEED_INETGR_R))

AC_CHECK_FUNC(getprotoent_r,
    AC_TRY_COMPILE(
        [ #undef __USE_MISC
            #define __USE_MISC
            #include <netdb.h>
            struct protoent *getprotoent_r(struct protoent *result,
                char *buffer, int buflen) {}
        ],
        [return (0);]
    )
)

[ PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
    PROTO_R_BAD="#define PROTO_R_BAD NULL"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
    PROTO_R_OK="#define PROTO_R_OK pptr"
    PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
    PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
AC_TRY_COMPILE(
    [
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);
    ]
    ,
    [return (0);]
    ,
    [
    PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
    PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
    PROTO_R_OK="#define PROTO_R_OK 0"
    PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
    PROTO_R_RETURN="#define PROTO_R_RETURN int"
    ]
    ,
    )
    ,
    )
    ,
    PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
    PROTO_R_BAD="#define PROTO_R_BAD NULL"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
    PROTO_R_OK="#define PROTO_R_OK pptr"
    PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
    PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent **"
    )
    AC_SUBST(PROTO_R_ARGS)
    AC_SUBST(PROTO_R_BAD)
    AC_SUBST(PROTO_R_COPY)
    AC_SUBST(PROTO_R_COPY_ARGS)
    AC_SUBST(PROTO_R_OK)
    AC_SUBST(PROTO_R_SETANSWER)
    AC_SUBST(PROTO_R_RETURN)

    AC_CHECK_FUNC(endprotoent_r,
    AC_TRY_COMPILE(
        [
        #undef _REENTRANT
        #define _REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
    ]
    ,
    [return (0);]
    ,
    [
    PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
    PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
    PROTO_R_OK="#define PROTO_R_OK 0"
    PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
    PROTO_R_RETURN="#define PROTO_R_RETURN int"
    ]
    ,
    )
    ,
    )
    ,
    PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
    PROTO_R_BAD="#define PROTO_R_BAD NULL"
    PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
    PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
    PROTO_R_OK="#define PROTO_R_OK pptr"
    PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
    PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent **"
    )
    AC_SUBST(PROTO_R_ARGS)
    AC_SUBST(PROTO_R_BAD)
    AC_SUBST(PROTO_R_COPY)
    AC_SUBST(PROTO_R_COPY_ARGS)
    AC_SUBST(PROTO_R_OK)
    AC_SUBST(PROTO_R_SETANSWER)
    AC_SUBST(PROTO_R_RETURN)

    AC_CHECK_FUNC(endprotoent_r,
void endprotoent_r(void);
]
,
]

PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
]

PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[ #undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void               setprotoent_r __P((int));
],[]

PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
)

PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[ #include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {} ]
]
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PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"

AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r, AC_TRY_COMPILE(
 |
 #include <pwd.h>
 void endpwent_r(FILE **pwfp);
 ),
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"

AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r, AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE(
#include <pwd.h>
void setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE(
#include <pwd.h>
int setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
},[return (0)];),
[SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"]
,
AC_TRY_COMPILE(
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int
    getservent_r (struct servent *, char *, size_t, struct servent **);
    },[return (0);];
    
    SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
    SERV_R_BAD="#define SERV_R_BAD ERANGE"
    SERV_R_COPY="#define SERV_R_COPY buf, buflen"
    SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
    SERV_R_OK="#define SERV_R_OK (0)"
    SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
    SERV_R_RETURN="#define SERV_R_RETURN int"
    
    AC_SUBST(SERV_R_ARGS)
    AC_SUBST(SERV_R_BAD)
    AC_SUBST(SERV_R_COPY)
    AC_SUBST(SERV_R_COPY_ARGS)
    AC_SUBST(SERV_R_OK)
    AC_SUBST(SERV_R_SETANSWER)
    AC_SUBST(SERV_R_RETURN)

    AC_CHECK_FUNC(endservent_r,
    AC_TRY_COMPILE(
        #undef _REENTRANT
        #define _REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        void endservent_r(void);
        ]
    ,

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int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
```

[ ININETGR_ARGS="#undef ININETGR_ARGS"
]
```

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]
```

[ ININETGR_ARGS="#define ININETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]

.AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
```

[ SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]

.AC.Try_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
```

SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"

AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(ININETGR_ARGS)

# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?

AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
  *-bsdi3.1*)
    hack_shutup_sputaux=yes
    ;;
  *-bsdi4.0*)
    hack_shutup_sigwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init Macros=yes
    ;;
  *-bsdi4.1*)
    hack_shutup_stdargcast=yes
    ;;
  *-solaris2.8)
    hack_shutup_pthreadonceinit=yes
    hack_shutup_in6addr_init Macros=yes
    ;;
esac

case "$hack_shutup_pthreadonceinit" in
  yes)
  # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
  #
  ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
  ;;
  esac

case "$hack_shutup_sigwait" in
  yes)
  #
```
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)
;;
esac

case "hack_shutup_sputaux" in
  yes)
  #
  # Shut up a -Wmissing-prototypes warning from <stdio.h>.
  #
  AC_DEFINE(SHUTUP_SPUTAUX)
  ;;
esac

case "hack_shutup_stdargcset" in
  yes)
  #
  # Shut up a -Wcast-qual warning from va_start().
  #
  AC_DEFINE(SHUTUP_STDARG_CAST)
  ;;
esac

case "hack_shutup_in6addr_init_macros" in
  yes)
  AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
  ;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}" AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/configure.in
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-->
<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_context</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>
#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
</funcsynopsis>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_create</function>
</funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_destroy</function>
</funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function>
</funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
lwres_uint32_t

lwres_context_nextserial

lwres_context_t *ctx

lwres_context_freemem

lwres_context_t *ctx
void *mem
size_t len

lwres_context_allocmem

lwres_context_t *ctx
size_t len

lwres_context_sendrecv

lwres_context_t *ctx
void *sendbase
int sendlen
void *recvbase
int recvlen
int *recvd_len

DESCRIPTION

lwres_context_create() creates a lwres_context_t structure for use in lightweight resolver operations. It holds a socket and other data needed for communicating with a resolver daemon. The new lwres_context_t is returned through contextp.
a pointer to a
<type>lwres_context_t</type>
pointer. This
<type>lwres_context_t</type>
pointer must initially be NULL, and is modified
to point to the newly created
<type>lwres_context_t</type>.

When the lightweight resolver needs to perform dynamic memory
allocation, it will call
<parameter>malloc_function</parameter>
to allocate memory and
<parameter>free_function</parameter>
to free it. If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL, memory is allocated using
.Xr malloc 3
and
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter>
and a non-NULL
<parameter>free_function</parameter>
or vice versa.
<parameter>arg</parameter>
is passed as the first parameter to the memory
allocation functions.
If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL,
<parameter>arg</parameter>
is unused and should be passed as NULL.
</para>
</para>
Once memory for the structure has been allocated,
it is initialized using
<refentry>
<refentrytitle>lwres_conf_init</refentrytitle>
</refentry>
and returned via
<parameter>*contextp</parameter>.

</para>
<para>
<function>lwres_context_destroy()</function>
destroys a
<type>lwres_context_t</type>,
closing its socket.
<parameter>contextp</parameter>
is a pointer to a pointer to the context that is to be destroyed.
The pointer will be set to NULL when the context has been destroyed.
</para>
<para>
The context holds a serial number that is used to identify resolver
request packets and associate responses with the corresponding requests.
This serial number is controlled using
<function>lwres_context_initserial()</function>
and
<function>lwres_context_nextserial()</function>.
<function>lwres_context_initserial()</function>
sets the serial number for context
<parameter>*ctx</parameter>
to
<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function>
increments the serial number and returns the previous value.
</para>
<para>
Memory for a lightweight resolver context is allocated and freed using
<function>lwres_context_allocmem()</function>
and
<function>lwres_context_freemem()</function>.
These use whatever allocations were defined when the context was
created with
<function>lwres_context_create()</function>.
<function>lwres_context_allocmem()</function> allocates
<parameter>len</parameter>
bytes of memory and if successful returns a pointer to the allocated storage.
<function>lwres_context_freemem()</function> frees <parameter>len</parameter> bytes of space starting at location <parameter>mem</parameter>.

</para>
<para>
<function>lwres_context_sendrecv()</function> performs I/O for the context <parameter>ctx</parameter>. Data are read and written from the context's socket. It writes data from <parameter>sendbase</parameter> — typically a lightweight resolver query packet — and waits for a reply which is copied to the receive buffer at <parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in <parameter>*recvd_len</parameter>.

</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns <errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the <type>struct lwres_context</type> could not be allocated, <errorcode>LWRES_R_SUCCESS</errorcode> otherwise.
</para>
<para>
Successful calls to the memory allocator <function>lwres_context_allocmem()</function> return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned when <function>lwres_context_sendrecv()</function> completes successfully.
LWRES_R_IOERROR is returned if an I/O error occurs and LWRES_R_TIMEOUT is returned if lwres_context_sendrecv() times out waiting for a response.

SEE ALSO

lwres_conf_init, malloc, free.

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/dst/md5_dgst.c
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Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1
.

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1
.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1
.

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/lcl_ho.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns_ho.c

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/hex.c

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/include/irp.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/include/isc/irpmarshall.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/nameser/ns_date.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/port/sco42/include/sys/un.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/inet/inet_lnaof.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/inet/inet_ntoa.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/bind/inet/inet_network.c

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" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"

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# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
 -I${top_srcdir}/lib/isc \
 -I${top_srcdir}/lib/isc/include \
 -I${top_srcdir}/lib/isc/unix/include \
 -I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
 -I${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
 -I${top_srcdir}/lib/dns/include \
 -I${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
 -I${top_srcdir}/lib/omapi/include
LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
-IS{top_srcdir}/lib/lwres/include

TEST_INCLUDES = \
-IS{top_srcdir}/lib/tests/include

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 */
/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*****
***** Platform-dependent defines.
*****/

/***
*** Network.
***/

/*
 * Define if this system needs the <netinet/in6.h> header file included
 * for full IPv6 support (pretty much only UnixWare).
 */
@ISCPLATFORM_NEEDINETINETIN6H@

/*
 * Define if this system needs the <netinet6/in6.h> header file included
 * to support in6_pkinfo (pretty much only BSD/OS).
 */
@ISCPLATFORM_NEEDINETINET6IN6H@

/*
 * If sockaddr on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
 * will be defined.
 */
@ISCPLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
 * will be defined.
 */
@ISCPLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISCPLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
 * defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@

/*
 * If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
 */
@ISC_PLATFORM_NEEDNTOP@

/*
 * If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
 */
@ISC_PLATFORM_NEEDPTON@

/*
 * If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
 */
@ISC_PLATFORM_NEEDATON@

/*
 * If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
 */
@ISC_PLATFORM_NEEDPORTT@

/*
 * If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
 */
@ISC_PLATFORM_NEEDSTRSEP@

/*
 * If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
 */
@ISC_PLATFORM_NEEDSTRLCPY@
/*
 * If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
 */
@ISC_PLATFORM_NEEDSTRLCAT@

/*
 * Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
 */
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
 * Define if PTHREAD_ONCE_INIT should be surrounded by braces to
 * prevent compiler warnings (such as with gcc on Solaris 2.8).
 */
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

/***
 *** Printing.
 ***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@
/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@
/* Define if this system needs memmove. */
@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif
#endif /* ISC_PLATFORM_H */

/ *
* Define if this system needs memmove.
 *
* @ISC_PLATFORM_NEEDMEMMOVE@

#ifdef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/ *
* Tell emacs to use C mode for this file.
 *
* Local Variables:
* mode: c
* End:
*/

#endif /* ISC_PLATFORM_H */
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<!-- $Id: lwres_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_gethostbyname</refname>
<refname>lwres_gethostbyname2</refname>
<refname>lwres_gethostbyaddr</refname>
<refname>lwres_gethostent</refname>
<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsis>

<funcPrototype>
struct hostent *

<function>lwres_gethostbyname</function>

<paramdef>const char *name</paramdef>
</funcPrototype>

<funcPrototype>
struct hostent *

<function>lwres_gethostbyname2</function>

<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcPrototype>

<funcPrototype>
struct hostent *

<function>lwres_gethostbyaddr</function>

<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcPrototype>
struct hostent *
<function>lwres_gethostent</function></funcdef>
@paramdef void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
@paramdef int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
@paramdef void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
@paramdef const char *name</paramdef>
@paramdef struct hostent *resbuf</paramdef>
@paramdef char *buf</paramdef>
@paramdef int buflen</paramdef>
@paramdef int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
@paramdef const char *addr</paramdef>
@paramdef int len</paramdef>
@paramdef int type</paramdef>
@paramdef struct hostent *resbuf</paramdef>
@paramdef char *buf</paramdef>
@paramdef int buflen</paramdef>
@paramdef int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent_r</function></funcdef>
@paramdef struct hostent *resbuf</paramdef>
@paramdef char *buf</paramdef>
@paramdef int buflen</paramdef>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard \cite{gethostent(3)} functions provided by most operating systems. They use a \ctype{struct hostent} which is usually defined in \filename{<namedb.h>}.  

```c
struct hostent    {
    char    *h_name;        /* official name of host */
    char    **h_aliases;    /* alias list */
    int     h_addrtype;     /* host address type */
    int     h_length;       /* length of address */
    char    **h_addr_list;  /* list of addresses from name server */
};
#define h_addr  h_addr_list[0]  /* address, for backward compatibility */
```

The members of this structure are: 

```xml
<variablelist>
    <varlistentry><term><constant>h_name</constant></term>
</variablelist>
```
<listitem><para>The official (canonical) name of the host.</para></listitem>

<varlistentry><term><constant>h_aliases</constant></term><listitem><para>A NULL-terminated array of alternate names (nicknames) for the host.</para></listitem></varlistentry>

<varlistentry><term><constant>h_addrtype</constant></term><listitem><para>The type of address being returned &mdash; <type>PF_INET</type> or <type>PF_INET6</type>.</para></listitem></varlistentry>

<varlistentry><term><constant>h_length</constant></term><listitem><para>The length of the address in bytes.</para></listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term><listitem><para>A <type>NULL</type>-terminated array of network addresses for the host. Host addresses are returned in network byte order.</para></listitem></varlistentry>

<para>For backward compatibility with very old software, <constant>h_addr</constant> is the first address in <constant>h_addr_list</constant>.</para>

<function>lwres_gethostent()</function>, <function>lwres_sethostent()</function>, <function>lwres_endhostent()</function>, <function>lwres_gethostent_r()</function>, <function>lwres_sethostent_r()</function>
and

provide iteration over the known host entries on systems that provide such functionality through facilities like

or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.

</para>

Reverse lookups of addresses are performed by

Reverse lookups of addresses are performed by

where <parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.

</para>
lwres_gethostbyaddr_r() is a thread-safe function that performs a reverse lookup of address which is len bytes long and is of protocol family &mdash; PF_INET or PF_INET6. If an error occurs, the error code is returned in *error. The other function parameters are identical to those in lwres_gethostbyname_r(). resbuf is a pointer to a struct hostent which is initialised by a successful call to lwres_gethostbyaddr_r(). buf is a buffer of length len bytes which is used to store the elements of the struct hostent returned in resbuf. Successful calls to lwres_gethostbyaddr_r() return resbuf, which is a pointer to the struct hostent() it created.

RETURN VALUES

The functions lwres_gethostbyname(), lwres_gethostbyname2(), lwres_gethostbyaddr(), and lwres_gethostent() return NULL to indicate an error. In this case the global variable lwres_h_errno will contain one of the following error codes defined in &lt;lwres/netdb.h&gt;:

- HOST_NOT_FOUND: The host or address was not found.
- TRY_AGAIN: A recoverable error occurred, e.g., a timeout.
Retrying the lookup may succeed.

A non-recoverable error occurred.

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

Successful calls to lwres_gethostbyname_r() and lwres_gethostbyaddr_r() return type=NULL. If parameter buflen was too small to hold the list of addresses and names referenced by the constants h_name, h_aliases, and h_addr_list elements of the type struct hostent that was initialised by these functions. They return type=NULL if the lookups fail or if parameter buflen was too small, both
<function>lwres_gethostbyname_r()</function> and <function>lwres_gethostbyaddr_r()</function> set the global variable <type>errno</type> to <errorcode>ERANGE</errorcode>.

</para>

</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
<citerefentry>
<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>

<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>, <function>lwres_gethostbyname2()</function>, <function>lwres_gethostbyaddr()</function> and <function>lwres_endhostent()</function> are not thread safe; they return pointers to static data and provide error codes through a global variable. Thread-safe versions for name and address lookup are provided by <function>lwres_gethostbyname_r()</function>, and <function>lwres_gethostbyaddr_r()</function> respectively.
</para>
</para>

The resolver daemon does not currently support any non-DNS name services such as <filename>/etc/hosts</filename> or <type>NIS</type>, consequently the above functions don't, either.
</para>
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If the operating system does not provide a \texttt{struct addrinfo}, the following structure is used:

\begin{verbatim}
struct addrinfo {
    int ai_flags;  /* AI_PASSIVE, AI_CANONNAME */
    int ai_family; /* PF_xxx */
    int ai_socktype; /* SOCK_xxx */
    int ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t ai_addrlen; /* length of ai_addr */
    char *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
\end{verbatim}

The function is the lightweight resolver’s implementation of \texttt{getaddrinfo}().
as defined in RFC2133.

<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are pointers to null-terminated
strings or
<type>NULL</type>.

<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal
IPv4 address or an IPv6 address.
<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>
is an optional pointer to a
<type>struct addrinfo</type>.
This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
<parameter>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term>
</varlistentry>
<para>The protocol family that should be used.
When
<constant>ai_family</constant>
is set to
<type>PF_UNSPEC</type>,
it means the caller will accept any protocol family supported by the
operating system.
</para></listitem>
<varlistentry><term><constant>ai_socktype</constant></term>
</varlistentry>
<para>denotes the type of socket &mdash;
<type>SOCK_STREAM</type>,
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
&mdash; that is wanted.
When
<constant>ai_socktype</constant>
is zero the caller will accept any socket type.
indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP.
If
is zero the caller will accept any protocol.

Flag bits.
If the
bit is set, a successful call to
will return a null-terminated string containing the canonical name
of the specified hostname in
of the first
structure returned.
Setting the
bit indicates that the returned socket address structure is intended
for used in a call to

In this case, if the hostname argument is a
pointer, then the IP address portion of the socket
address structure will be set to
for an IPv4 address or
for an IPv6 address.

When
does not set the
<type>AI_PASSIVE</type>
bit, the returned socket address structure will be ready
for use in a call to
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>
for a connection-oriented protocol or
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
or
<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>
if a connectionless protocol was chosen.
The IP address portion of the socket address structure will be
set to the loopback address if
<parameter>hostname</parameter>
is a
<type>NULL</type>
pointer and
<type>AI_PASSIVE</type>
is not set in
<constant>ai_flags</constant>.
</para>
<para>
If
<constant>ai_flags</constant>
is set to
<type>AI_NUMERICHOST</type>
it indicates that
<parameter>hostname</parameter>
should be treated as a numeric string defining an IPv4 or IPv6 address
and no name resolution should be attempted.
</para>
</listitem>
</varlistentry>
</variablelist>
</para>
All other elements of the `<type>struct addrinfo</type>` passed via `<parameter>hints</parameter>` must be zero.

A `<parameter>hints</parameter>` of `<type>NULL</type>` is treated as if the caller provided a `<type>struct addrinfo</type>` initialized to zero with `<constant>ai_family</constant>` set to `<constant>PF_UNSPEC</constant>`.

After a successful call to `<function>lwres_getaddrinfo()</function>`, `<parameter>*res</parameter>` is a pointer to a linked list of one or more `<type>addrinfo</type>` structures. Each `<type>struct addrinfo</type>` in this list can be processed by following the `<constant>ai_next</constant>` pointer, until a `<type>NULL</type>` pointer is encountered. The three members `<constant>ai_family</constant>`, `<constant>ai_socktype</constant>`, and `<constant>ai_protocol</constant>` in each returned `<type>addrinfo</type>` structure contain the corresponding arguments for a call to `<citerefentry><refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>`. For each `<type>addrinfo</type>` structure in the list, the `<constant>ai_addr</constant>` member points to a filled-in socket address structure of length `<constant>ai_addrlen</constant>`.
All of the information returned by
<function>lwres_getaddrinfo()</function>
is dynamically allocated: the addrinfo structures, and the socket
address structures and canonical host name strings pointed to by the
<constant>addrinfo</constant>structures.
Memory allocated for the dynamically allocated structures created by
a successful call to
<function>lwres_getaddrinfo()</function>
is released by
<function>lwres_freeaddrinfo()</function>.
<parameter>ai</parameter> is a pointer to a
<type>struct addrinfo</type>
created by a call to
<function>lwres_getaddrinfo()</function>.
</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.
</para>
</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
</para>
</refsect1>
<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

<para>

Found in path(s):
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/liblwres/man/lwres_getaddrinfo.docbook

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<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
</refentry>

refformatter
<reffentrytitle>lwres_resutil</reffentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
lwres_string_parse

lwres_addr_parse

lwres_getaddrsbyname

lwres_getnamebyaddr

lightweight resolver utility functions

#include &lt;lwres/lwres.h&gt;

lwres_result_t
lwres_string_parse(lwres_buffer_t *b, char **c, lwres_uint16_t *len)

lwres_result_t
lwres_addr_parse(lwres_buffer_t *b, lwres_addr_t *addr)

lwres_result_t
lwres_getaddrsbyname(lwres_context_t *ctx, const char *name, lwres_uint32_t addrtypes, lwres_gabnresponse_t **structp)

lwres_result_t
lwres_getnamebyaddr(lwres_context_t *ctx, lwres_uint32_t addrtype, lwres_uint16_t addrlen, const unsigned char *addr, lwres_gnbaresponse_t **structp)
<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>

<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.
</para>

<para>
<function>lwres_getaddrsbyname()</function> and <function>lwres_getnamebyaddr()</function> use the <type>lwres_gnbaresponse_t</type> structure defined below:

<programlisting>
typedef struct {
  lwres_uint32_t          flags;
  lwres_uint16_t          naliases;
  lwres_uint16_t          naddrs;
  char                   *realname;
  char                  **aliases;
  lwres_uint16_t          realnamelen;
  lwres_uint16_t          *aliaslen;
  lwres_addrlist_t        addrs;
  void                   *base;
  size_t                  baselen;
} lwres_gnbaresponse_t;
</programlisting>

</refsect1>
The contents of this structure are not manipulated directly but
they are controlled through the
functions.

The lightweight resolver uses
<function>lwres_getaddrsbyname()</function> to perform forward lookups. Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation. <parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are <type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and <type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.

<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by <parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.

Successful calls to
<function>lwres_string_parse()</function>
and
<function>lwres_addr_parse()</function>
return
<errorcode>LWRES_R_SUCCESS</errorcode>. Both functions return
<errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer has less space than expected for the components of the
encoded string or address.
</para>
<para>
<function>lwres_getaddrsbyname()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
on success and it returns
<errorcode>LWRES_R_NOTFOUND</errorcode>
if the hostname
<parameter>name</parameter>
could not be found.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode>
is returned by a successful call to
<function>lwres_getnamebyaddr()</function>.
</para>

<para>
Both
<function>lwres_getaddrsbyname()</function>
and
<function>lwres_getnamebyaddr()</function>
return
<errorcode>LWRES_R_NOMEMORY</errorcode>
when memory allocation requests fail and
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffers used for sending queries and receiving replies are too
small.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
</para>
</refsect1>
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"
" "The following six UNCOMMENTED lines are required.
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapased_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
}
"Eventlib historical summary for detected hog."

"Eventlib historical element for detected hog."

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/dst_internal.h
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*/
/*
* Get the response to 'request' by filling in 'message'.
* 
* 'options' is passed to dns_message_parse(). See dns_message_parse()
* for more details.
* 
* Requires:
* 
* 'request' is a valid request for which the caller has received the
* completion event.
* 
* The result code of the completion event was ISC_R_SUCCESS.
* 
* Returns:
* 
* ISC_R_SUCCESS
* 
* Any result that dns_message_parse() can return.
*/

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/request.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/tests/t_api.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/view.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/adb.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/ncache.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/sockaddr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/net.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/ifiter_ioctl.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/message.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/key_25.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/loc_29.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/xfrin.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/master.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/masterdump.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/app.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/ffiter_sysctl.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/types.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/net.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/stdlib.h
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<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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  <refentryinfo>
    <date>Jun 30, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_gabn</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_gabnrequest_render</refname>
    <refname>lwres_gabnresponse_render</refname>
    <refname>lwres_gabnrequest_parse</refname>
    <refname>lwres_gabnresponse_parse</refname>
    <refname>lwres_gabnresponse_free</refname>
    <refname>lwres_gabnrequest_free</refname>
    <refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <funcsynopsis>
      #include &lt;lwres/lwres.h&gt;
    </funcsynopsis>
  </refsynopsisdiv>
  <funcsynopsisinfo>
    #include &lt;lwres/lwres.h&gt;
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
</funcdef>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
</funcdef>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</funcdef>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
</funcdef>

<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode. One render function converts a getaddrbyname request structure to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure. Another render function converts the getaddrbyname response structure to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in `<lwres/lwres.h>`. They are shown below.

```c
#define LWRES_OPCODE_GETADDRSBYNAME     0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint32_t addrtypes;
    lwres_uint16_t namelen;
    char         *name;
} lwres_gabnrequest_t;

typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char             *realname;
    char             **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
} lwres_gabnresponse_t;
```
lwres_addrlist_t addr;
void *base;
size_t baselen;
} lwres_gabnresponse_t;
</programlisting>
</para>
</para>
</function>lwres_gabnrequest_render()</function> uses resolver context
<parameter>ctx</parameter>
to convert getaddrbyname request structure
<parameter>req</parameter>
to canonical format.
The packet header structure
<parameter>pkt</parameter>
is initialised and transferred to
buffer
<parameter>b</parameter>.

The contents of
<parameter>*req</parameter>
are then appended to the buffer in canonical format.
<function>lwres_gabnresponse_render()</function> performs the same task, except it converts a getaddrbyname response structure
<type>lwres_gabnresponse_t</type>
to the lightweight resolver's canonical format.
</para>
</para>
</function>lwres_gabnrequest_parse()</function> uses context
<parameter>ctx</parameter>
to convert the contents of packet
<parameter>pkt</parameter>
to a
<type>lwres_gabnrequest_t</type>
structure.
Buffer
<parameter>b</parameter>
provides space to be used for storing this structure.
When the function succeeds, the resulting
<type>lwres_gabnrequest_t</type>
is made available through
<parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function> offers the same semantics as
<function>lwres_gabnrequest_parse()</function> except it yields a
<type>lwres_gabnresponse_t</type> structure.
</para>
<para>
<function>lwres_gabnresponse_free()</function>
and
<function>lwres_gabnrequest_free()</function>
release the memory in resolver context
<parameter>ctx</parameter>
that was allocated to the
<type>lwres_gabnresponse_t</type>
or
<type>lwres_gabnrequest_t</type>
structures referenced via
<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
The getaddrbyname opcode functions
<function>lwres_gabnrequest_render()</function>,
<function>lwres_gabnresponse_render()</function>
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
all return
<errorcode>LWRES_R_SUCCESS</errorcode> on success.
They return
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory allocation fails.
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> is returned if the available space in the buffer
<parameter>b</parameter>
is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type>
and
<type>lwres_gabnresponse_t</type>
structures.
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer is not empty after decoding the received packet. These functions will return
<errorcode>LWRES_R_FAILURE</errorcode>
if
<structfield>pktflags</structfield>
in the packet header structure
<type>lwres_lwpacket_t</type>
indicate that the packet is not a response to an earlier query.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

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* eventlib definitions specific to binos
* *
* January 2007, Vikram Visweswaraiah
* *
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*------------------------------------------------------------------------------------------*/

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Os OPERATING_SYSTEM [version/release]

The following requests should be uncommented and used where appropriate. This next request is for sections 2 and 3 function return values only.

This next request is for sections 1, 6, 7 & 8 only

.Sh ENVIRONMENT

.Sh EXAMPLES

This next request is for sections 1, 6, 7 & 8 only

(command return values (to shell) and fprintf/stderr type diagnostics)

The next request is for sections 2 and 3 error and signal handling only.

.Sh STANDARDS

.Sh HISTORY

.Sh BUGS

Found in path(s):

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<!-- $Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Oct 18, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_getrrsetbyname</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
</refentry>
<refname>lwres_getrrsetbyname</refname>  
<refname>lwres_freerrset</refname>  
<refpurpose>retrieve DNS records</refpurpose>  
</refnamediv>  
<refsynopsisdiv>  
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;</funcsynopsis>

<funcprototype>
<int>
<function>lwres_getrrsetbyname</function>
</funcdef>

<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>

<funcprototype>
<funcdef>
<funcprototype>
<function>lwres_freerrset</function>
</funcdef>

<paramdef>struct rrsetinfo *rrset</paramdef>

<refsynopsis>

The following structures are used:

<programlisting>
struct  rdatainfo {
    unsigned int     rdi_length; /* length of data */
    unsigned char    *rdi_data;  /* record data */
};

struct  rrsetinfo {
    unsigned int     rri_flags; /* RRSET_VALIDATED... */
    unsigned int     rri_rdclass; /* class number */
    unsigned int     rri_rdtype; /* RR type number */
    unsigned int     rri_ttl;     /* time to live */
    unsigned int     rri_nrdatas; /* size of rdatas array */
    unsigned int     rri_nsigs;   /* size of sigs array */
    char             *rri_name;   /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs;  /* individual signatures */
};
</programlisting>
</refsynopsis>
</para>
</refsynopsisdiv>
DESCRIPTION

 lwres_getrrsetbyname() gets a set of resource records associated with a 
 hostname, class, and type.

 hostname is a pointer to a null-terminated string. The flags field is currently unused and must be zero.

 After a successful call to lwres_getrrsetbyname(), *res is a pointer to an rrsetinfo structure, containing a list of one or more rdatainfo structures containing resource records and potentially another list of rdatainfo structures containing SIG resource records associated with those records.

 The members rri_rdc and rri_rdt are copied from the parameters. rri_ttl and rri_name are properties of the obtained rrset. The resource records contained in rri_rdatas and rri_sigs are in uncompressed DNS wire format. Properties of the rdataset are represented in the rri_flags bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC.
validated and the signatures verified.

All of the information returned by \texttt{lwres_getrsetbyname()} is dynamically allocated: the \constant{rrsetinfo} and 
\constant{rdatainfo} structures, and the canonical host name strings pointed to by the \constant{rrsetinfo} structure.

Memory allocated for the dynamically allocated structures created by a successful call to \texttt{lwres_getrsetbyname()} is released by \texttt{lwres_freerrset()}.

\param{rrset} is a pointer to a \type{struct rrset} created by a call to \texttt{lwres_getrsetbyname()}.

\section{RETURN VALUES}

\texttt{lwres_getrsetbyname()} returns zero on success, and one of the following error codes if an error occurred:

\begin{varlistentry}
\item \constant{ERRSET_NONAME} the name does not exist
\item \constant{ERRSET_NODATA} the name exists, but does not have data of the desired type
\item \constant{ERRSET_NOMEMORY}
\end{varlistentry}
memory could not be allocated

<listitem>
<para>
<term>ERRSET_INVAL</term>

a parameter is invalid
</para></listitem></varlistentry>

<varlistentry>
<term>ERRSET_FAIL</term>

other failure
</para></listitem></varlistentry>

<variablelist>
</variablelist>

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>

</para>
</refsect1>
</refentry>

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/irs/port/aix4/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/irs/port/irix/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/list.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/sec/dst/include/dst/dst.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/os.c
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<!-- $Id: lwres_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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    <date>Jun 30, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_getipnode</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_getipnodebyname</refname>
    <refname>lwres_getipnodebyaddr</refname>
    <refname>lwres_freehostent</refname>
    <refpurpose>lightweight resolver nodename / address translation API</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <funcsynopsis>
      #include &lt;lwres/netdb.h&gt;</funcsynopsis>
  </refsynopsisdiv>
  <funcprototype>
    struct hostent *
    <function>lwres_getipnodebyname</function>
  </funcprototype>
</refentry>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>
The members of this structure are:

The official (canonical) name of the host.

A NULL-terminated array of alternate names (nicknames) for the host.

The type of address being returned - usually

The length of the address in bytes.

A

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

looks up addresses of protocol family
for the hostname <parameter>name</parameter>.

The <parameter>flags</parameter> parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned. The flag bits are:

<variablelist>
<varlistentry><term><constant>AI_V4MAPPED</constant></term><listitem>
<para>This is used with an <parameter>af</parameter> of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>AI_ALL</constant></term><listitem>
<para>This is used with an <parameter>af</parameter> of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>AI_ADDRCONFIG</constant></term><listitem>
<para>Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>AI_DEFAULT</constant></term><listitem>
<para>This default sets the <constant>AI_V4MAPPED</constant> and <constant>AI_ADDRCONFIG</constant> flag bits.
</para>
</listitem></varlistentry>
</variablelist>
<para></para><para><function>lwres_getipnodebyaddr()</function> performs a reverse lookup of address <parameter>src</parameter> which is <parameter>len</parameter> bytes long. <parameter>af</parameter> denotes the protocol family, typically <type>PF_INET</type> or <type>PF_INET6</type>.</para><para></para><para><function>lwres_freehostent()</function> releases all the memory associated with the <type>struct hostent</type> pointer <parameter>he</parameter>. Any memory allocated for the <constant>h_name</constant>, <constant>h_addr_list</constant> and <constant>h_aliases</constant> is freed, as is the memory for the <type>hostent</type> structure itself.</para><para></para><para>RETURN VALUES</para><para>If an error occurs, <function>lwres_getipnodebyname()</function> and <function>lwres_getipnodebyaddr()</function> set <parameter>*error_num</parameter> to an appropriate error code and the function returns a <type>NULL</type> pointer. The error codes and their meanings are defined in...
<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
</listitem>
<para>No such host is known.</para>
</varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term>
</listitem>
<para>The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.</para>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
</listitem>
<para>A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.</para>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</listitem>
<para>An unexpected failure occurred, and retrying the request is pointless.</para>
</varlistentry>
</variablelist>

<refsect1>
<title>SEE ALSO</title>
<para>
<refentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</refentry>

translates these error codes to suitable error messages.
</para>
</refsect1>
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<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>
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<citerefentry>
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<citerefentry>
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</para>
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/dst/dst_internal.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/logging.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/logging_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/resolv/res_mkupdate.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/resolv/res_update.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/logging.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_print.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns_nv.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns_gr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/gethostent.c
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 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
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 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

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```
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/afsdb_18.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rt_21.c
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/keyvalues.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/tkey.c
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/heap.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/list.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/ncache.h
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 * This is the header file for the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
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 * Equivalent code is available from RSA Data Security, Inc.
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 *
 * To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.
*
* Changed so as no longer to depend on Colin Plumb's `usual.h' header definitions; now uses stuff from dpkg's config.h
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* /opt/cola/permissions/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permissions/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permissions/1210918043_1634587135.54/0/lib-tar/lib/isc/region.c
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* /opt/cola/permissions/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/win32os.c
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1.112 sg3-utils 1.44 r0
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1.114 python3-markupsafe 1.1.1 r0

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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: The Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

--------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe

Examples
-------

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> Markup(u'&lt;script&gt;alert(document.cookie)&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % '"World"'
```

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-----

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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
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.*

Found in path(s):
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/setup.py
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* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/README.rst
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/**
   * markupsafe._speedups
   * ~~~~~~~~~~~~~~~~~~~~
   * C implementation of escaping for better performance. Used instead of
   * the native Python implementation when compiled.
   *
   * :copyright: 2010 Pallets
   * :license: BSD-3-Clause
   */

Found in path(s):
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_speedups.c

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Found in path(s):
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_native.py
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/__init__.py
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_compat.py
1.115 libsepol 2.8 r0

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1.116 libnss-nisplus

1.3+gitAUTOINC+c6934373c7 r0

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

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

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

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

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

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

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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.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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
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to use the modified definitions.)

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

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

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

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

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

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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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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.

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

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

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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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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Sections 1 and 2 above); and, if the work is an executable linked
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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1.120 pixman 0.38.4 r0

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1.121 python-iso8601 0.1.12 r0

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1.122 python-pycrypto 2.6.1 r0

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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>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.2</td>
<td>2.2.1</td>
<td>2002</td>
<td>PSF</td>
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</tr>
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<td>2.2.3</td>
<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FCD9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#     dlitz@dlitz.net
# requested that this message be sent to:-
#     crypt@bis.doc.gov
#     enc@nsa.gov
#     web_site@bis.doc.gov
#     pycrypto@lists.dlitz.net
#     PYTHON-CRYPTO@NIC.SURFNET.NL
#     dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
#     http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 SCF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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=3oIX

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from=paulswartz@gmail.com; helo=fg-out-1718.google.com; client-ip=72.14.220.159
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Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references
    :from:date:message-id:subject:to:content-type
    :content-transfer-encoding;
    b=gyTqkRhKHaIdFKIZCBWsbRbnMNVDq1PWJbyC0EvxPskaoor3HAR96MWQNBEPu40Ac
    Vn55qllqTdom4e9zIUE6MWZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswhItaYwNAyMJ
    Y9++76PGqzYdALsfsvmsw7Q3/bEnmjVTtr0QEQ=
DomainKey-Signature: a=rsa-sha1; c=nofws;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references:from:date:message-id:subject:
    :content-type:content-transfer-encoding;
    b=jze7KSMkUGilfVCXXXaaXMt5NA7GdMQQoVZZfRNyGSy68xOd2sxefjyyig3Et6Nv6
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MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185;
    Mon, 03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0600
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
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Yes, that's fine. Good luck with the new release!

-p
--
20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
  
  > On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
  
  >> Hi Paul,
  >>
  >> I am the new maintainer of the Python Cryptography Toolkit, and I am
  >> working on a new release at http://www.pycrypto.org/.
  >
  > That's great!
  >
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  >> domain all your contributions to PyCrypto, with the following notice?
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  >>
  > Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    by goeder.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: from localhost ([127.0.0.1])
    by goeder.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:38 -0500 (EST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0600 (CST)
    Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
    From: Barry Warsaw <barry@python.org>
    To: Dwayne C. Litzenberger <dlitz@dlitz.net>
    In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
    Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
    Content-Transfer-Encoding: quoted-printable

Open Source Used In IOSXE Releases 17.7.1-RMs 1825
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
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SK4w9VBJtY=3D
=3DQduY
-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can...
find, starting with you, if I can release PyCrypto under something clearer=
=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=20

May I, on your behalf, dedicate to the public domain your considerable=20
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IAcGkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
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The intention is that it be public domain.

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You may.

--amk
Hi Jeethu,

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
  for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
  for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
  by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
  for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
  for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references:
  :date:message-id:subject:from:to:content-type;
  bh=YWy9U32WCUiksRqukHwaOZyJQBU4Yvat5ml2OUI6mIdg=;
  b=omJl231xYjKge2zNJW3rUtui9LqFxmey5Wp0pLtuNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzzBbNstctVgq6DhQiQtouCLZymSVOibmuDmKn5DtUKoxpDk0xCqMHyasL9/A6D3/J66kKrNBgX9mc0GPcZTvVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
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Regards,

- Dwayne

--

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0 Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A0A24 928C EC1 =A0 39C2 5CF7

=000e0cd209d0e5a3d40464a23054--

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:
(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Hi Joris,

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
    for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
    for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
    Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
    Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
        by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
        for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
    Received: (qmail 4224 invoked by uid 0);  5 May 2009 07:08:25 -0000
    Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
        (envelope-sender <joris@bontje.nl>)
        by 10.170.1.96 (qmail-ldap-1.03) with SMTP
        for < >; 5 May 2009 07:08:25 -0000
    Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
    id 9BE98B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
    Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
        [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
    Tue, 05 May 2009 09:08:25 +0200
    Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
    Date: Tue, 05 May 2009 09:08:25 +0200
    From: joris@bontje.nl
    To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
    Subject: Re: PyCrypto license clarification
    References: <20090505024914.GA9219@rivest.dlitz.net>
    In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
    MIME-Version: 1.0
    Content-Type: text/plain;
       charset=ISO-8859-1;
       format="flowed"
    Content-Disposition: inline

Open Source Used In IOSXE Releases 17.7.1-RMs 1839
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required
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I was very excited to read that it is now one of the installed
libraries for Google AppsEngine!

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>
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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goederel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
    Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
        by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
        for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
    DKIM-Signature: v=1; a=r-a-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933; b=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JEHhXhD3k9aTHU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
    b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvelkb9B8k91qKU+51W/TkSGBij5YZhkhLQdkQk0qLz5f4g8d76bOME3s
    eyJj10hixK0u2UD0yoYTINBCmsdMQRo7ph9bmt+p/EjhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTgqB
    2aU=
    DomainKey-Signature:a=r-a-sha1; q=dsn; c=nofws;
    s=s1024; d=yahoo.com;
    h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
    b=r6ShFF5VzQLg++9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxcF0oebhutE35grGqIomOJLwM0+2izWrb6rGkDj7
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
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> The text in the current LICENSE file (quoted below) is not
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-- Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1
1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFAkmzZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIIyLg0hgCI9LABQSH8AolJgaqllli77ZYDc+/Cd8VOOxLbr
=Mr6g
-----END PGP SIGNATURE-----

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LICENSE.libtom LICENSE file from LibTomCrypt
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1.129 semodule-utils 2.8 r0

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1.130 platform-python-setuptools 39.2.0-6.el8

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1.131 python3-lxml 4.4.1 r0

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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/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
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1.140 which 2.21 r3
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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To apply these terms, attach the following notices to the library. It is
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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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Preamble

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

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

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

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

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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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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1.143 make 4.2.1 r0

1.143.1 Available under license:
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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#include <dos/dos.h>
#include <proto/dos.h>
#endif
#ifdef WINDOWS32
#include <windows.h>
#include <io.h>
#include "pathstuff.h"
#include "sub_proc.h"
#include "w32err.h"
#endif
#ifdef __EMX__

# include <sys/types.h>
# include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
# include <fcntl.h>
#endif
#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
char * value;
char x;

value = getenv (name);
if (value == NULL)
    return default_value;

x = toupper (value[0]);
switch (x)
    {
    case '1':
    case 'T':
    case 'E':
        return 1;
    break;
    case '0':
    case 'F':
    case 'D':
        return 0;
    }
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
# define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS

void exit (int) __attribute__ ((noreturn));
#endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
  int c;        /* The switch character. */
enum        /* Type of the value. */
{
  flag,       /* Turn int flag on. */
  flag_off,   /* Turn int flag off. */
  string,     /* One string per invocation. */
  strlist,    /* One string per switch. */
  filename,   /* A string containing a file name. */
  positive_int, /* A positive integer. */
  floating,   /* A floating-point number (double). */
  ignore      /* Ignored. */
} type;

void *value_ptr;    /* Pointer to the value-holding variable. */

unsigned int env:1;    /* Can come from MAKEFLAGS. */
unsigned int toenv:1;   /* Should be put in MAKEFLAGS. */
unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

const void *noarg_value;    /* Pointer to value used if no arg given. */
const void *default_value;  /* Pointer to default value. */
const char *long_name;  /* Long option name. */

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
 in command switches of a type that takes strlist arguments. */
struct stringlist
{
    const char **list;  /* Nil-terminated list of strings. */
    unsigned int idx;   /* Index into above. */
    unsigned int max;   /* Number of pointers allocated. */
};

/* The recognized command switches. */
/* Nonzero means do extra verification (that may slow things down). */
int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */
int silent_flag;

/* Nonzero means just touch the files
 that would appear to need remaking (-t) */
int touch_flag;

/* Nonzero means just print what commands would need to be executed,
 don't actually execute them (-n). */
int just_print_flag;

/* Print debugging info (--debug). */
static struct stringlist *db_flags = 0;
static int debug_flag = 0;
int db_level = 0;

/* Synchronize output (--output-sync). */
char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */
int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
executed to remake files. Just treat them all as successful (-i). */
int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
that results from reading the makefile (-p). */
int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
if the specified targets are not up to date (-q). */
int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */
int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */
int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */
int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */
int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
This is necessary because print_directory_flag is set implicitly. */
int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */
static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */
static const int inf_jobs = 0;

/* Authorization for the jobserver. */
static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our children under -O. */
char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
   Negative values mean unlimited, while zero means limit to zero load (which could be useful to start infinite jobs remotely but one at a time locally). */
#ifndef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */
static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */
static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */
static struct stringlist *old_files = 0;

/* List of files given with -W switches. */
static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */
static int print_usage_flag = 0;

/* If nonzero, we should print a warning message for each reference to an undefined variable. */
int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether they appear out of date or not. */
static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */
int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */
struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */
char cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the
 translators, especially those trying to translate to right-to-left
 languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:\n"),
    N_(\n    -b, -m                Ignored for compatibility\n"),
    N_(\n    -B, --always-make    Unconditionally make all targets\n"),
    N_(\n    -C DIRECTORY, --directory=DIRECTORY\n    Change to DIRECTORY before doing anything\n"),
    N_(\n    -d                    Print lots of debugging information\n"),
    N_(\n    --debug[=FLAGS]       Print various types of debugging information\n"),
    N_(\n    -e, --environment-overrides\n    Environment variables override makefiles\n"),
    N_(\n    --eval=STRING         Evaluate STRING as a makefile statement\n"),
    N_(\n    -f FILE, --file=FILE, --makefile=FILE\n    Read FILE as a makefile\n"),
    N_(\n    -h, --help            Print this message and exit\n"),
    N_(\n    -i, --ignore-errors   Ignore errors from recipes\n"),
    N_(\n    -I DIRECTORY, --include-dir=DIRECTORY\n    Search DIRECTORY for included makefiles\n"),
    N_(\n    -j [N], --jobs[=N]    Allow N jobs at once; infinite jobs with no arg\n"),
    N_(\n    -k, --keep-going      Keep going when some targets can't be made\n"),
    N_(\n    -l [N], --load-average[=N], --max-load[=N]\n    Don't start multiple jobs unless load is below N\n"),
    N_(\n    -L, --check-symmlink-times Use the latest mtime between symlinks and target\n"),
    N_(\n    -n, --just-print, --dry-run, --recon\n    Don't actually run any recipe; just print them\n")
};
N_("\n-o FILE, --old-file=FILE, --assume-old=FILE\n
    Consider FILE to be very old and don't remake it.");

N_("\n-O[TYPE], --output-sync[=TYPE]\n
    Synchronize output of parallel jobs by TYPE.");

N_("\n-p, --print-data-base       Print make's internal database.");

N_("\n-q, --question              Run no recipe; exit status says if up to date.");

N_("\n-r, --no-builtin-rules      Disable the built-in implicit rules.");

N_("\n-R, --no-builtin-variables Disable the built-in variable settings.");

N_("\n-s, --silent, --quiet       Don't echo recipes.");

N_("\n-S, --no-keep-going, --stop

    Turns off -k.");

N_("\n-t, --touch                 Touch targets instead of remaking them.");

N_("\n--trace                     Print tracing information.");

N_("\n-v, --version               Print the version number of make and exit.");

N_("\n-w, --print-directory       Print the current directory.");

N_("\n--no-print-directory       Turn off -w, even if it was turned on implicitly.");

N_("\n-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n
    Consider FILE to be infinitely new.");

N_("\n--warn-undefined-variables Warn when an undefined variable is referenced.");

N_("\n--no-print-directory        Turn off -w, even if it was turned on implicitly.");

N_("\n--warn-undefined-variables Warn when an undefined variable is referenced.");

NULL
};

/* The table of command switches.
   Order matters here: this is the order MAKEFLAGS will be constructed.
   So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0 },
    #ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
    #endif
};
#ifndef NO_FLOAT
{
    'l', floating, &max_load_average, 1, 1, 0, 0, "load-average" },
#endif
{
    'o', filename, &old_files, 0, 0, 0, 0, "old-file" },
{
    'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{
    'W', filename, &new_files, 0, 0, 0, 0, "what-if" },
/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 0, 0, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0, "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'T', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'T', filename, &include_directories, 1, 0, 0, 0, "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, 0, "load-average" },
#endif
{ 'T', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#else
{ 'T', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, "what-if" },
/* These options take arguments. */
{ 'C', filename, &directories, 1, 1, 0, 0, 0, "directory" },
{ 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
{ 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, "ignore-errors" },
{ 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "keep-going" },
{ 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
{ 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
{ 'n', flag, &just_print_flag, 1, 1, 0, 0, 0, "just-print" },
{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 0, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
{ 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0, "no-built-in-variables" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, 0, "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 0, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },
/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'T', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'T', filename, &include_directories, 1, 0, 0, 0, "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, 0, "load-average" },
#endif
{ 'T', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#else
{ 'T', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },
/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, 0, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0, "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },

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/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
    { "quiet",           no_argument,            0, 's' },
    { "stop",            no_argument,            0, 'S' },
    { "new-file",        required_argument,      0, 'W' },
    { "assume-new",      required_argument,      0, 'W' },
    { "assume-old",      required_argument,      0, 'o' },
    { "max-load",        optional_argument,      0, 'l' },
    { "dry-run",         no_argument,            0, 'n' },
    { "recon",           no_argument,            0, 'n' },
    { "makefile",        required_argument,      0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
    cannot be 'const'. */
    char *program;
#else
    const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */
char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable. The value will be the name of the goal to remake if the command line does not override it. It can be set by the makefile, or else it's the first target defined in the makefile whose name does not start with '.'. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT whose commands are used for any file that has none of its own. This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target. This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target. This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target. This causes the entire recipe to be handed to SHELL as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This attempts to synchronize the output of parallel jobs such that the results of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target. */
This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
 print one warning about it during the run, and (b) we can print a final
 warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
 options, while reading makefiles, etc. */

struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */
#ifndef POSIX
sigset_t fatal_signal_set;
#else
#if !defined HAVE_SIGSETMASK
int fatal_signal_mask;
#else
#endif
#endif
#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
#define bsd_signal signal
#else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);
static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;

    /* If output-sync is enabled we'll collect all the output generated due to
       options, while reading makefiles, etc. */

    struct output make_sync;

    /* Mask of signals that are being caught with fatal_error_signal. */
#ifndef POSIX
    sigset_t fatal_signal_set;
#else
    #if !defined HAVE_SIGSETMASK
    int fatal_signal_mask;
    #else
    #endif
#endif
#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
    #if !defined HAVE_SIGACTION
    #define bsd_signal signal
    #else
    typedef RETSIGTYPE (*bsd_signal_ret_t) (int);
    static bsd_signal_ret_t
    bsd_signal (int sig, bsd_signal_ret_t func)
    {
        struct sigaction act, oact;
        act.sa_handler = func;
        act.sa_flags = SA_RESTART;
        sigemptyset (&act.sa_mask);
        sigaddset (&act.sa_mask, sig);
        if (sigaction (sig, &act, &oact) != 0)
            return SIG_ERR;
    #endif
#endif

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return oact.sa_handler;
}
#endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'\0'] = MAP_NUL;
    stopchar_map[(int)'#'] = MAP_COMMENT;
    stopchar_map[(int)';'] = MAP_SEMI;
    stopchar_map[(int) '='] = MAP_EQUALS;
    stopchar_map[(int) ':' ] = MAP_COLON;
    stopchar_map[(int)'%'] = MAP_PERCENT;
    stopchar_map[(int)'|'] = MAP_PIPE;
    stopchar_map[(int)'.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)','] = MAP_COMMA;
    stopchar_map[(int)'$'] = MAP_VARIABLE;
    stopchar_map[(int)'-'] = MAP_USERFUNC;
    stopchar_map[(int)'_'] = MAP_USERFUNC;
    stopchar_map[(int)' '] = MAP_BLANK;
    stopchar_map[(int)'	'] = MAP_BLANK;
    stopchar_map[(int)'/') = MAP_DIRSEP;
#if defined(VMS)
    stopchar_map[(int)';'] |= MAP_DIRSEP;
    stopchar_map[(int)'|'] |= MAP_DIRSEP;
    stopchar_map[(int)'>'] |= MAP_DIRSEP;
#elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int)'\'] |= MAP_DIRSEP;
#endif
    stopchar_map[(int)'-'] = MAP_USERFUNC;
    stopchar_map[(int)'] = MAP_USERFUNC;
    stopchar_map[(int)'] = MAP_BLANK;
    stopchar_map[(int)'\'] = MAP_BLANK;

    stopchar_map[(int)'/'] = MAP_DIRSEP;
#if defined(VMS)
    stopchar_map[(int)'] |= MAP_DIRSEP;
    stopchar_map[(int)'|'] |= MAP_DIRSEP;
    stopchar_map[(int)'>'] |= MAP_DIRSEP;
#elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int)'] |= MAP_DIRSEP;
#endif
    stopchar_map[(int)'] = MAP_USERFUNC;
    stopchar_map[(int)'\'] = MAP_DIRSEP;
#endif
for (i = 1; i <= UCHAR_MAX; ++i)
{
if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
/* Don't mark blank characters as newline characters. */
stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
stopchar_map[i] |= MAP_USERFUNC;
}
}
static const char *
expand_command_line_file (const char *name)
{
const char *cp;
char *expanded = 0;
if (name[0] == '\0')
O (fatal, NILF, _("empty string invalid as file name"));
if (name[0] == '~')
{
expanded = tilde_expand (name);
if (expanded && expanded[0] != '\0')
name = expanded;
}
/* This is also done in parse_file_seq, so this is redundant
for names read from makefiles. It is here for names passed
on the command line. */
while (name[0] == '.' && name[1] == '/')
{
name += 2;
while (name[0] == '/')
/* Skip following slashes: ".//foo" is "foo", not "/foo". */
++name;
}
if (name[0] == '\0')
{
/* Nothing else but one or more "./", maybe plus slashes! */
name = "./";
}
cp = strcache_add (name);
free (expanded);

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return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifndef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
  db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
  const char **pp;

  if (debug_flag)
    db_level = DB_ALL;

  if (db_flags)
    for (pp=db_flags->list; *pp; ++pp)
      {
        const char *p = *pp;

        while (1)
          {
            switch (tolower (p[0]))
              {
                case 'a':
                  db_level |= DB_ALL;
                  break;
                case 'b':
                  db_level |= DB_BASIC;
                  break;
                case 'i':
                  db_level |= DB_BASIC | DB_IMPLICIT;
                  break;
                case 'j':
                  db_level |= DB_JOBS;
                  break;
                case 'm':
                  db_level |= DB_BASIC | DB_MAKEFILES;
                  break;
                case 'n':
                  db_level = 0;
                  break;
              }
case 'v':
    db_level |= DB_BASIC | DB VERBOSE;
    break;
default:
    OS (fatal, NIL, 
    _("unknown debug level specification '%s'''), p);
}

while (*(++p) != '\0')
if (*p == ',' || *p == ' ')
{
    ++p;
    break;
}

if (*p == '\0')
break;
}

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
    #ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
    #else
    if (output_sync_option)
    {
        if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
        else if (streq (output_sync_option, "line"))
            output_sync = OUTPUT_SYNC_LINE;
        else if (streq (output_sync_option, "target"))
            output_sync = OUTPUT_SYNC_TARGET;
        else if (streq (output_sync_option, "recurse"))
            output_sync = OUTPUT_SYNC_RECURSE;
        else
            OS (fatal, NIL, 
                _("unknown output-sync type '%s'"), output_sync_option);
    }
    #endif
}
if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
#endif

#endif  /* NO_OUTPUT_SYNC */

#ifdef WINDOWS32

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}

#endif  /* NO_OUTPUT_SYNC */

/*
 * HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
 * exception and print it to stderr instead.
 *
 * If ! DB_VERBOSE, just print a simple message and exit.
 * If DB_VERBOSE, print a more verbose message.
 * If compiled for DEBUG, let exception pass through to GUI so that
 * debuggers can attach.
 */
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
    #ifdef USE_EVENT_LOG
    HANDLE hEventSource;
    LPTSTR lpszStrings[1];
    #endif

if (! ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)n"),
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    _("Unhandled exception filter called from program %s
    ExceptionCode = %lx
    ExceptionFlags = %lx
    ExceptionAddress = 0x%p"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    & & exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0] ? _("Access violation: write operation at address 0x%p"
            : _("Access violation: read operation at address 0x%p")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource, /* handle of event source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0, /* event category */
            0, /* event ID */
            NULL, /* current user's SID */
            1, /* strings in lpszStrings */
            0, /* no bytes of raw data */
            lpszStrings, /* array of error strings */
            NULL); /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
#endif

/* Write the error to stderr too */
    fprintf (stderr, errmsg);
ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
#else
    exit (255);
    return (255); /* not reached */
#endif

/*
 * On WIN32 systems we don't have the luxury of a /bin directory that
 * is mapped globally to every drive mounted to the system. Since make could
 * be invoked from any drive, and we don't want to propagate /bin/sh
 * to every single drive. Allow ourselves a chance to search for
 * a value for default shell here (if the default path does not exist).
 */

int find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request.
     * However, make sure that's what they really want by requiring the value
     * of SHELL either equal, or have a final path element of, "cmd" or
     * "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
        && (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend, "cmd"))
    || ((tokend - 4 == search_token
        && (tokend[-5] == '/' || tokend[-5] == '\'))
        && !strcasecmp (tokend - 4, "cmd.exe")))
    { batch_mode_shell = 1;
      unixy_shell = 0;
      sprintf (sh_path, "%s", search_token);
default_shell = xstrdup (w32ify (sh_path, 0));

DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s
"),
    default_shell));

sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s
"),
        default_shell));
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;
        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);
        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
        }
    }
}
/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
DB (DB_VERBOSE,
    (_("find_and_set_shell() path search set default_shell = %s\n"),
     default_shell));
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#endif  /* WINDOWS32 */
#endif  /* BATCH_MODE_ONLY_SHELL */
batch_mode_shell = 1;
#endif  /* WINDOWS32 */

#elifdef ___MSDOS__
static void
msdos_return_to_initial_directory (void)
{
if (directory_before_chdir)
    chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    SetUnhandledExceptionFilter (handle_runtime_exceptions);
    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif

    output_init (&make_sync);

    initialize_stopchar_map();

    #ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;
        
/* Set the stack limit huge so that alloca does not fail. */
if (getrlimit (RLIMIT_STACK, &rlim) == 0
    && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
{
    stack_limit = rlim;
    rlim.rlim_cur = rlim.rlim_max;
    setrlimit (RLIMIT_STACK, &rlim);
}
else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#ifdef (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
 make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
    sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#else
    #ifdef HAVE_SIGSETMASK
        fatal_signal_mask = 0;
    #define ADD_SIG(sig)    fatal_signal_mask |= sigmask (sig)
    #else
        #ifdef HAVE_SIGSETMASK
            fatal_signal_mask = 0;
        #define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
        #else
            #define ADD_SIG(sig)  sigaddset (&fatal_signal_set, sig)
        #endif
    #endif
#endif
#define ADD_SIG(sig)   (void)sig
#endif
#endif

#define FATAL_SIG(sig)
   if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)
    
    bsd_signal (sig, SIG_IGN);
   else
    
    ADD_SIG (sig);
#endif

#ifdef SIGHUP
   FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
   FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
   /* Windows 9X delivers FP exceptions in child programs to their
    * parent! We don't want Make to die when a child divides by zero,
    * so we work around that lossage by catching SIGFPE. */
   FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
   FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
   FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
   FATAL_SIG (SIGXFSZ);
#endif

#undef  FATAL_SIG

/* Do not ignore the child-death signal. This must be done before
any children could possibly be created; otherwise, the wait
functions won't work on systems with the SVR4 ECHILD brain
damage, if our invoker is ignoring this signal. */

#ifdef HAVE_WAIT_NOHANG
   # if defined SIGCHLD
     (void) bsd_signal (SIGCHLD, SIG_DFL);
   # endif
   # if defined SIGCLD & SIGCHLD != SIGCHLD

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(void) bsd_signal (SIGCLD, SIG_DFL);
#endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
{
    program = strrchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\');
    else
    {
        /* Some weird environments might pass us argv[0] with
         both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\');
        if (p && p > program)
            program = p;
    }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#endif
#if defined WINDOWS32
if (program == 0)
{
    /* Extract program from full path */
    program = strrchr (argv[0], '\');
    if (program)
    {
        int argv0_len = strlen (program);
        if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
            /* Remove .exe extension */
            program[argv0_len - 4] = '\0';
    }
#endif
#endif
#if defined VMS
    set_program_name (argv[0]);
    program = program_name;
{
    const char *shell;
char pwdbuf[256];
char *pwd;
shell = getenv ("SHELL");
if (shell != NULL)
    vms_gnv_shell = 1;

/* Need to know if CRTL set to report UNIX paths. Use getcwd as it works on all versions of VMS. */
pwd = getcwd(pwdbuf, 256);
if (pwd[0] == '/')
    vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be changed to be compatible with standard make behavior. For now only completely disable when running under a Bash shell. TODO: Update VMS built in recipes and macros to not need this behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS", !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is incompatible with built in functions that expect space separated lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA", vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax. VMS requires double quotes for strings and escapes quotes differently. When this option is active, VMS will try to simulate Posix shell simulations instead of using VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM", !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif
/* Set up to access user data (files). */
user_access();

initialize_global_hash_tables();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
  ifdef HAVE_GETCWD
    perror_with_name ("getcwd", "");
  #else
    OS (error, NILF, "getwd: %s", current_directory);
  #endif
  current_directory[0] = '\0';
  directory_before_chdir = 0;
}
else
directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ",", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", ",", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", ",", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", ",", o_default, 0);

/* Set up .FEATURES */
Use a separate variable because define_variable_cname() is a macro and some compilers (MSVC) don't like conditionals in macros. */
{
  const char *features = "target-specific order-only second-expansion"
    " else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
    " archives"
#endif
#ifdef MAKE_JOBSERVER
    " jobserver"
ifdef
ifndef NO_OUTPUT_SYNC
     " output-sync"
endif
ifdef MAKE_SYMLINKS
     " check-symlink"
endif
ifdef HAVE_GUILLE
     " guile"
endif
ifdef MAKE_LOAD
     " load"
endif
;

define_variable_cname (".FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */

ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;

        while (!STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '0')
            continue;
        ifdef WINDOWS32
            if (!unix_path && !strneq (envp[i], "PATH=", 5))
                unix_path = ep+1;
            else if (!strnicmp (envp[i], "Path=", 5))

                TYPECHECK_="path="
                UNQUIET_="path="
                grouped="path="
                echo "read env: path=", ep+1
                continue:
        endif
        /* If we have a path var, print it. */
        if (export == v_export)
if (!windows32_path)
    windows32_path = ep + 1;
/* PATH gets defined after the loop exits. */
continue;
}
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
    #ifndef __MSDOS__
        export = v_noexport;
    #endif
    shell_var.name = xstrdup ("SHELL");
    shell_var.length = 5;
    shell_var.value = xstrdup (ep);
}

v->export = export;
}
#endif WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : ",
                o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:", ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
        {
            if (fib.fib_DirEntryType < 0) /* File */
            {
                /* Define an empty variable. It will be filled in
                variable_lookup(). Makes startup quite a bit faster. */
                define_variable (fib.fib_FileName,
                                strlen (fib.fib_FileName),
                                "", o_env, 1)->export = v_export;
            }
        }
    }
    UnLock (env);
    UnLock (CurrentDir (old));
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
   MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
   and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading
the makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */
syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
                     || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
argv_slots = arg_job_slots;

if (arg_job_slots == INVALID_JOB_SLOTS)
    arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
if (isatty (fileno (stdout)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")) )
        {  
            const char *tty = TTYNAME (fileno (stdout));
            define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,  
                                o_default, 0)->export = v_export;
        }
    if (isatty (fileno (stderr)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
        {  
            const char *tty = TTYNAME (fileno (stderr));
            define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,  
                                o_default, 0)->export = v_export;
        }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
             || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
if (v && v->value[0] != '\0' && v->value[0] != '-')
    makelevel = (unsigned int) atoi (v->value);
else
    makelevel = 0;
}
#endif

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)
", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.
"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();
#endif

#ifndef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif
#ifdef WINDOWS32
/* Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], "\/\") || strstr (argv[0], ".")
    || strneq (argv[0], "/!/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#endif

char *p;

argv[0] = xstrdup (argv[0]);
for (p = argv[0]; *p; p++)
    if (*p == '\')
        *p = '/';

/* If argv[0] is not in absolute form, prepend the current
   directory.  This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '0' || argv[0][1] != ':'))
#ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif
)
    argv[0] = xstrdup (concat (3, current_directory, '/', argv[0]));
#else /* !_MSDOS_ */
    if (current_directory[0] != '0'
        && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
        #ifdef HAVE_DOS_PATHS
        && (argv[0][0] != '\' && (!argv[0][0] || argv[0][1] != ':'))
        && strchr (argv[0], '\') != 0
        #endif
    )
        argv[0] = xstrdup (concat (3, current_directory, '/', argv[0]));
#endif /* !_MSDOS_ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver.  This can't be usefully set
   in the makefile, and we want to verify the authorization is valid before
   make has a chance to start using it for something else. */
if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
            /* Success!  Use the jobserver. */
            job_slots = 0;
        }
    }
}
gogo job_setup_complete;
}

O (error, NILF, _("warning: jobserver unavailable: using -j1. Add `+` to parent make rule.");
arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
ext else if (!restarts)
/* If restarts is >0 we already printed this message. */
O (error, NILF,
_("warning: -jN forced in submake: disabling jobserver mode.");

/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

/* The extra indirection through $(MAKE_COMMAND) is done
for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)
define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$\{MAKE_COMMAND\}\$, o_default, 1);

if (command_variables != 0)
{
struct command_variable *cv;
struct variable *v;
unsigned int len = 0;
char *value, *p;

/* Figure out how much space will be taken up by the command-line
variable definitions. */
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';
}
p[-1] = '\0';  /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
   makefile could validly use for its own variable. */
define_variable_cname (“-*-command-variables-*-”, value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
   Normally a reference to this variable is written into the value of
   MAKEFLAGS, allowing the user to override this value to affect the
   exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
   allow the user’s setting of MAKEOVERRIDES to affect MAKEFLAGS, so
   a reference to this hidden variable is written instead. */
define_variable_cname (“MAKEOVERRIDES”, “${-*-command-variables-*-}”,
                         o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol (“MAKEOVERRIDES”, “${-*-command-variables-*-}”);
#endif

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {

const char *dir = directories->list[i];

#ifdef WINDOWS32
/* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
   But allow -C/ just in case someone wants that. */
{
    char *p = (char *)dir + strlen (dir) - 1;
    while (p > dir && (p[0] == '\' || p[0] == '/'))
        --p;
    p[1] = '0';
}
#endif
if (chdir (dir) < 0)
    pfatal_with_name (dir);
#endif

#ifdef WINDOWS32
/* THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER 
   TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c. 
   
   The functions in dir.c can incorrectly cache information for "." 
   before we have changed directory and this can cause file 
   lookups to fail because the current directory (.) was pointing 
   at the wrong place when it was first evaluated. */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;
/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;
/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;
/* Construct the list of include directories to search. */
construct_include_path (include_directories == 0
    ? 0 : include_directories->list);
/* If we chdir'ed, figure out where we are now. */
if (directories)
ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
#else
ifdef HAVE_GETCWD
perror_with_name ("getcwd", "");
#else
OS (error, NILF, "getwd: %s", current_directory);
#endif

starting_directory = 0;
#else
starting_directory = current_directory;
#endif

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
            /* This makefile is standard input. Since we may re-exec
               and thus re-read the makefiles, we read standard input
               into a temporary file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)
                O (fatal, NILF,
                    "("Makefile from standard input specified twice.");

#ifdef VMS
    # define DEFAULT_TMPDIR   "/sys$scratch/"
#else
    # ifndef P_tmpdir
    # define DEFAULT_TMPDIR   P_tmpdir
    # else
    # define DEFAULT_TMPDIR   "/tmp"
    # endif
#endif
#define DEFAULT_TMPFILE "GmXXXXXX"

ifdef DEFAULT_TMPFILE

if (((tmpdir = getenv("TMPDIR")) == NULL || *tmpdir == '0')
#if defined (_MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
    /* These are also used commonly on these platforms. */
    && ((tmpdir = getenv("TEMP")) == NULL || *tmpdir == '0')
    && ((tmpdir = getenv("TMP")) == NULL || *tmpdir == '0')
#endif
)
    tmpdir = DEFAULT_TMPDIR;

template = alloca(strlen(tmpdir) + CSTRLEN(DEFAULT_TMPFILE) + 2);
strcpy(template, tmpdir);
#endif

#ifdef HAVE_DOS_PATHS
    if (strchr("/\", template[strlen(template) - 1]) == NULL)
        strcat(template, "/");
#else
    #ifndef VMS
        if (template[strlen(template) - 1] != '/')
            strcat(template, "/");
    #endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

    strcat(template, DEFAULT_TMPFILE);
    outfile = output_tmpfile(&stdin_nm, template);
    if (outfile == 0)
        pfatal_with_name(_("fopen (temporary file)");
while (!feof(stdin) && !ferror(stdin))
{
    char buf[2048];
    unsigned int n = fread(buf, 1, sizeof(buf), stdin);
    if (n > 0 && fwrite(buf, 1, n, outfile) != n)
        pfatal_with_name(_("fwrite (temporary file)");
}
fclose(outfile);

/* Replace the name that read_all_makefiles will
see with the name of the temporary file. */
makefiles->list[i] = strcache_add(stdin_nm);

/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file(strcache_add(stdin_nm));
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
/* Can't be intermediate, or it'll be removed too early for
make re-exec. */
f->intermediate = 0;
f->dontcare = 0;
}
}
}
#endif /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before reading in the makefiles so that 'shell' function calls will work.

If we don't have a hanging wait we have to fall back to old, broken functionality here and rely on the signal handler and counting children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */
{
#if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
#endif
#if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
#endif
}
#endif
#endif
/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#if defined SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif
*/
/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes();

/* Define the file rules for the built-in suffix rules. These will later be converted into pattern rules. We used to do this in install_default_implicit_rules, but since that happens after reading makefiles, it results in the built-in pattern rules taking precedence over makefile-specified suffix rules, which is wrong. */
ininstall_default_suffix_rules();

/* Define some internal and special variables. */
define_automatic_variables();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see. Initialize it to be exported but allow the makefile to reset it. */
define_makeflags(0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables();

default_file = enter_file(strcache_add(“.DEFAULT”));

default_goal_var = define_variable_cname(“.DEFAULT_GOAL”, “”, o_file, 0);

/* Evaluate all strings provided with --eval. Also set up the $(-*-eval-flags-*-) variable. */
if (eval_strings)
{
  char *p, *value;
  unsigned int i;
  unsigned int len = (CSTRLEN(“--eval=”)+1) * eval_strings->idx;

  for (i = 0; i < eval_strings->idx; ++i)
  {
    p = xstrdup(eval_strings->list[i]);
    len += 2 * strlen(p);
    eval_buffer(p, NULL);
    free(p);
  }

  p = value = alloca(len);
  for (i = 0; i < eval_strings->idx; ++i)
  {
    strcpy(p, “--eval=”);
    p += CSTRLEN(“--eval=”);
    p += CSTRLEN(p, eval_strings->list[i]);
  }
/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !_find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *_path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;

    if (shv && *shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else
            unixy_shell = 0;

        if (shell_path)
            default_shell = shell_path;
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

    /* Decode switches again, for variables set by the makefile. */
    decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

    /* Clear GNUMAKEFLAGS to avoid duplication. */
    define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);

    *(p++) = ' ';
    }
    p[-1] = '"';

    define_variable_cname ("-.*-eval-flags-.*", value, o_automatic, 0);
}
decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
    {
        free_dep_chain (suffix_file->deps);
        suffix_file->deps = 0;
    }
    define_variable_cname ("SUFFIXES", ",", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables ();
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
    # ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
    # endif
)
    }
    { 
        O (error, NILF,
            _("Parallel jobs (-j) are not supported on this platform."));
        O (error, NILF, _("Resetting to single job (-j1) mode."));
        arg_job_slots = job_slots = 1;
    }
    #endif

/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.
Every make assumes that it always has one job it can run. For the submakes it's the token they were given by their parent. For the top make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
   depended on. Also do magic for special targets. */

snap_deps ();

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern rules. */

convert_to_pattern();

/* Install the default implicit pattern rules.  
   This used to be done before reading the makefiles.  
   But in that case, built-in pattern rules were in the chain 
   before user-defined ones, so they matched first. */

install_default_implicit_rules();

/* Compute implicit rule limits. */

count_implicit_rule_limits();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists();

/* Mark files given with -o flags as very old and as having been updated 
   already, and files given with -W flags as brand new (time-stamp as far 
   as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* Initialize the remote job module. */
remote_setup();

/* Dump any output we've collected. */

OUTPUT_UNSET();
output_close(&make_sync);

if (read_files != 0)
{
  /* Update any makefiles if necessary. */

  FILE_TIMESTAMP *makefile_mtimes = 0;
  unsigned int mm_idx = 0;
  char **aargv = NULL;
  const char **argv = NULL;
  int nargc;
  enum update_status status;

  DB (DB_BASIC, (_("Updating makefiles....\n")));

  /* Remove any makefiles we don't want to try to update.
   * Also record the current modtimes so we can compare them later. */

  register struct goaldep *d, *last;
  last = 0;
  d = read_files;
  while (d != 0)
  {
    struct file *f = d->file;
    if (f->double_colon)
      for (f = f->double_colon; f != NULL; f = f->prev)
      {
        if (f->deps == 0 && f->cmds != 0)
        {
          /* This makefile is a :: target with commands, but
             no dependencies. So, it will always be remade.
             This might well cause an infinite loop, so don't
             try to remake it. (This will only happen if
             your makefiles are written exceptionally
             stupidly; but if you work for Athena, that's how
             you write your makefiles.) */

          DB (DB_VERBOSE,
              (_("Makefile '%s' might loop; not remaking it\n"),
              f->name));

          if (last == 0)
            read_files = d->next;
else
    last->next = d->next;

    /* Free the storage. */
    free_goaldep (d);

d = last == 0 ? read_files : last->next;

    break;
}

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
      (mm_idx+1)
      * sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (! ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
         * for one of the makefiles to be remade as a target on the command
         * line. Since we're not actually updating anything with -q we can
         * treat this as "did nothing". */
        /*
         * This only happens if the user specified -q and asked for one of
         * the makefiles to be remade as a target on the command line. Since
         * we're not actually updating anything with -q we can treat this as
         * "did nothing".
         */
case us_none:
    /* Did nothing. */
    break;

case us_failed:
    /* Failed to update. Figure out if we care. */
    {
        /* Nonzero if any makefile was successfully remade. */
        int any_remade = 0;
        /* Nonzero if any makefile we care about failed in updating or could not be found at all. */
        int any_failed = 0;
        unsigned int i;
        struct goaldep *d;

        for (i = 0, d = read_files; d != 0; ++i, d = d->next)
            {
                if (d->file->updated)
                    {
                        /* This makefile was updated. */
                        if (d->file->update_status == us_success)
                            {
                                /* It was successfully updated. */
                                any_remade |= (file_mtime_no_search (d->file)
                                                != makefile_mtimes[i]);
                            }
                        else if (! (d->flags & RM_DONTCARE))
                            {
                                FILE_TIMESTAMP mtime;
                                /* The update failed and this makefile was not from the MAKEFILES variable, so we care. */
                                OS (error, NILF, _("Failed to remake makefile '%s'."),
                                d->file->name);
                                mtime = file_mtime_no_search (d->file);
                                any_remade |= (mtime != NONEXISTENT_MTIME
                                                && mtime != makefile_mtimes[i]);
                                makefile_status = MAKE_FAILURE;
                            }
                    }
                else
                    /* This makefile was not found at all. */
                    if (! (d->flags & RM_DONTCARE))
                        {
                            const char *dnm = dep_name (d);
                            size_t l = strlen (dnm);

                            /* This is a makefile we care about. See how much. */
                            if (d->flags & RM_INCLUDED)
/* An included makefile. We don't need to die, but we
do want to complain. */
error (NILF, l,
   _("Included makefile \"%s\" was not found."), dnm);
else
{
   /* A normal makefile. We must die later. */
   error (NILF, l,
      _("Makefile \"%s\" was not found"), dnm);
   any_failed = 1;
}
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
goto re_exec;
if (any_failed)
die (MAKE_FAILURE);
break;
}

case us_success:
re_exec:
/* Updated successfully. Re-exec ourselves. */

remove_intermediates (0);

if (print_data_base_flag)
   print_data_base (0);

clean_jobserver (0);

if (makefiles != 0)
{
   /* These names might have changed. */
   int i, j = 0;
   for (i = 1; i < argc; ++i)
      if (strneq (argv[i], "-f", 2)) /* XXX */
      {
         if (argv[i][2] == \0')
            /* This cast is OK since we never modify argv. */
            argv[++i] = (char *) makefiles->list[j];
         else
            argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
         ++j;
      }
/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
aargv = m;
    memcpy (aargv, argv, argc * sizeof (char *));
aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
aargv[nargc] = 0;
nargv = m;
}
else
nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory."));
}
++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[\%u:]"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" \%s", *p);
    putchar (\n');
    fflush (stdout);
}
#endif _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
if (strneq (*p, MAKELEVEL_NAME "="; MAKELEVEL_LENGTH+1))
{
 *p = alloca (40);
 sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#endif /* AMIGA */
else if (strneq (*p, MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS="))
{
 *p = alloca (40);
 sprintf (*p, MAKE_RESTARTS=%s%u,
 OUTPUT_IS_TRACED () ? ":" : ":", restarts);
 restarts = 0;
}
}
#else /* AMIGA */
{
 char buffer[256];

 sprintf (buffer, "%u", makelevel);
 SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

 sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? ":" : ":", restarts);
 SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
 restarts = 0;
}
#endif
/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
 char *b = alloca (40);
 sprintf (b, MAKE_RESTARTS=%s%u,
 OUTPUT_IS_TRACED () ? ":" : ":", restarts);
 putenv (b);
}

fflush (stdout);
fflush (stderr);
#endif _AMIGA
exec_command (nargv);
exit (0);
#elif defined (__EMX__)
/* It is not possible to use execve() here because this
would cause the parent process to be terminated with exit code 0 before the child process has been terminated. Therefore it may be the best solution simply to spawn the child process including all file handles and to wait for its termination. */

```c
int pid;
int r;
pid = child_execute_job(NULL, 1, nargv, environ);

/* is this loop really necessary? */
do {
    pid = wait(&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit(WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
}
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit(RLIMIT_STACK, &stack_limit);
#endif
    exec_command((char **)nargv, environ);
#endif
free(aargv);
break;
}

/* Free the makefile mtimes. */
free(makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags(1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file(*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                   strlen (default_goal_var->value));
        *p = '0';
        p = variable_buffer;
    }

    if (*p != '0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                        _(".DEFAULT_GOAL contains more than one target"));

                f = enter_file (strcache_add (ns->name));

                ns->name = 0; /* It was reused by enter_file(). */
                free_ns_chain (ns);
            }
        }
    }

    if (f)
goals = alloc_goaldep();
goals->file = f;
}
}
}
else
lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

        O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...
")));

{
switch (update_goal_chain (goals))
{
    case us_none:
        /* Nothing happened. */
        /* FALLTHROUGH */
    case us_success:
        /* Keep the previous result. */
        break;
    case us_question:
        /* We are under -q and would run some commands. */
        makefile_status = MAKE_TROUBLE;
        break;
    case us_failed:
        /* Updating failed. POSIX.2 specifies exit status >1 for this; */
        makefile_status = MAKE_FAILURE;
        break;
}

/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
    O (error, NILF,
        _("warning: Clock skew detected. Your build may be incomplete.
"));

/* Exit. */
die (makefile_status);
}
/* NOTREACHED */
exit (MAKE_SUCCESS);
}
/* Parsing of arguments, decoding of switches. */
static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
(sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]))];
/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
char *p;
unsigned int c;
unsigned int i;
if (options[0] != '\0')
/* Already done. */
return;
p = options;
/* Return switch and non-switch args in order, regardless of
POSIXLY_CORRECT. Non-switch args are returned as option 1. */
*p++ = '-';
for (i = 0; switches[i].c != '\0'; ++i)
{
long_options[i].name = (switches[i].long_name == 0 ? "" :
switches[i].long_name);
long_options[i].flag = 0;
long_options[i].val = switches[i].c;
if (short_option (switches[i].c))
*p++ = switches[i].c;
switch (switches[i].type)
{
case flag:
case flag_off:
case ignore:
long_options[i].has_arg = no_argument;
break;
case string:
case strlist:

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case filename:
case positive_int:
case floating:
    if (short_option (switches[i].c))
        *p++ = ':';
    if (switches[i].noarg_value != 0)
        if (short_option (switches[i].c))
            *p++ = ':';
        long_options[i].has_arg = optional_argument;
    else
        long_options[i].has_arg = required_argument;
    break;
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
           sizeof (long_option_aliases[0]));
    ++c)
    long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}
/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '\0')
        /* Ignore plain '-' for compatibility. */
        return;
#ifdef VMS
{
    /* VMS DCL quoting can result in foo="bar baz" showing up here.
       Need to remove the double quotes from the value. */
    char * eq_ptr;
    char * new_arg;
    eq_ptr = strchr (arg, '=');
    if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
        {
            int len;
            int seg1;
            int seg2;
            len = strlen(arg);
            eq_ptr[1] = 0;
            new_arg = malloc(len + 1);
            for (i = 0; i < len; i++)
                new_arg[i] = arg[i];
            new_arg[len] = 0;
            /* varname=new_arg;
             */
            varname = new_arg;
            free(new_arg);
            break;
        }
#endif
}
new_arg = alloca(len);
seg1 = eq_ptr - arg + 1;
strncpy(new_arg, arg, (seg1));
seg2 = len - seg1 - 1;
strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
new_arg[seg1 + seg2] = 0;
if (new_arg[seg1 + seg2 - 1] == "")
    new_arg[seg1 + seg2 - 1] = 0;
arg = new_arg;
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition. If we don't already have this
       one, record a pointer to the variable for later use in
       define_makeflags. */
    struct command_variable *cv;
    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;
    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
    else if (! env)
    {
        /* Not an option or variable definition; it must be a goal
           target! Enter it as a file and add it to the dep chain of
           goals. */
        struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
        f->cmd_target = 1;
        if (goals == 0)
        {
            goals = alloc_goaldep ();
            lastgoal = goals;
        }
        else
        {
            lastgoal->next = alloc_goaldep ();
        }
lastgoal = lastgoal->next;
}

lastgoal->file = f;
{
    /* Add this target name to the MAKECMDGOALS variable. */
    struct variable *gv;
    const char *value;

    gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
    if (gv == 0)
        value = f->name;
    else
        {
            /* Paste the old and new values together */
            unsigned int oldlen, newlen;
            char *vp;

            oldlen = strlen (gv->value);
            newlen = strlen (f->name);
            vp = alloca (oldlen + 1 + newlen + 1);
            memcpy (vp, gv->value, oldlen);
            vp[oldlen] = ' ';  
            memcpy (&vp[oldlen + 1], f->name, newlen + 1);
            value = vp;
        }
    define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

    fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

    for (cpp = usage; *cpp; ++cpp)
fputs (_(*cpp), usageto);
if (!remote_description || *remote_description == '\0')
fprintf (usageto, _("\nThis program built for %s\n"), make_host);
else
fprintf (usageto, _("\nThis program built for %s (%s)\n"),
make_host, remote_description);
fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}
/* Decode switches from ARGC and ARGV.
They came from the environment if ENV is nonzero. */
static void
decode_switches (int argc, const char **argv, int env)
{
int bad = 0;
register const struct command_switch *cs;
register struct stringlist *sl;
register int c;
/* getopt does most of the parsing for us.
First, get its vectors set up. */
init_switches ();
/* Let getopt produce error messages for the command line,
but not for options from the environment. */
opterr = !env;
/* Reset getopt's state. */
optind = 0;
while (optind < argc)
{
const char *coptarg;
/* Parse the next argument. */
c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
coptarg = optarg;
if (c == EOF)
/* End of arguments, or "--" marker seen. */
break;
else if (c == 1)
/* An argument not starting with a dash. */
handle_non_switch_argument (coptarg, env);
else if (c == '?')
/* Bad option. We will print a usage message and die later.

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But continue to parse the other options so the user can see all he did wrong. */
bad = 1;
else
for (cs = switches; cs->c != '\0'; ++cs)
  if (cs->c == c)
  {
    /* Whether or not we will actually do anything with this switch. We test this individually inside the switch below rather than just once outside it, so that options which are to be ignored still consume args. */
    int doit = !env || cs->env;
    switch (cs->type)
    {
    default:
      abort ();
    case ignore:
      break;
    case flag:
    case flag_off:
      if (doit)
        *(int *) cs->value_ptr = cs->type == flag;
      break;
    case string:
    case strlist:
    case filename:
      if (!doit)
        break;
      if (! coptarg)
        coptarg = xstrdup (cs->noarg_value);
      else if (*coptarg == '\0')
        { char opt[2] = "c";
          const char *op = opt;

          if (short_option (cs->c))
            opt[0] = cs->c;
          else
            op = cs->long_name;

          error (NILF, strlen (op),
             "(" + (short_option (cs->c) ? "-" : "--") + "", op);


bad = 1;
break;
}

if (cs->type == string)
{
  char **val = (char **)cs->value_ptr;
  free (*val);
  *val = xstrdup (coptarg);
  break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
  sl = xmalloc (sizeof (struct stringlist));
  sl->max = 5;
  sl->idx = 0;
  sl->list = xmalloc (5 * sizeof (char *));
  *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
  sl->max += 5;
  /* MSVC erroneously warns without a cast here. */
  sl->list = xrealloc ((void *)sl->list, sl->max * sizeof (char *));
}
if (cs->type == filename)
sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
  /* See if we have an option argument; if we do require that
   * it's all digits, not something like "10foo". */
  if (coptarg == 0 && argc > optind)
  {
    const char *cp;
    for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
    {
      if (cp[0] == '0')
        coptarg = argv[optind++];
    }
  }

  if (!doit)
break;

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
    {
        if (i < 1 || cp[0] != '\0')
        {
            error (NILF, 0,
                _("the '-%c' option requires a positive integer argument"),
                cs->c);
            bad = 1;
        }
    }
    *(unsigned int *) cs->value_ptr = i;
}
else
    *(unsigned int *) cs->value_ptr
    = *(unsigned int *) cs->noarg_value;
break;

#ifndef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.
            )
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
            = (coptarg !== 0 ? atof (coptarg)
                : *(double *) cs->noarg_value);

        break;
#endif

/* We've found the switch. Stop looking. */
break;
}

/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments

to be returned in order, this only happens when there is a "--"
argument to prevent later arguments from being options. */
while (optind < argc)
handle_non_switch_argument (argv[optind++], env);
if (!env && (bad || print_usage_flag))
{
print_usage (bad);
die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}
/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}
/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */
static void
decode_env_switches (const char *envar, unsigned int len)
{
char *varref = alloca (2 + len + 2);
char *value, *p, *buf;
int argc;
const char **argv;
/* Get the variable's value. */
varref[0] = '$';
varref[1] = '(';
memcpy (&varref[2], envar, len);
varref[2 + len] = ')';
varref[2 + len + 1] = '\0';
value = variable_expand (varref);
/* Skip whitespace, and check for an empty value. */
NEXT_TOKEN (value);
len = strlen (value);
if (len == 0)
return;
/* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));
/* getopt will look at the arguments starting at ARGV[1].
Prepend a spacer word. */

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argv[0] = 0;
argc = 1;

/* We need a buffer to copy the value into while we split it into words
   and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\' && value[1] != '\0')
        ++value; /* Skip the backslash. */
    else if (ISBLANK (*value))
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
            while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p++ = *value++;
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=')) == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '\0')
    }
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\\')
*out++ = '\\';
*out++ = *in++;
}
return out;
}
/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
static struct variable *
define_makeflags (int all, int makefile)
{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)";
const char evalref[] = "$(-*-eval-flags-*-)";
const struct command_switch *cs;
char *flagstring;
char *p;
/* We will construct a linked list of 'struct flag's describing
all the flags which need to go in MAKEFLAGS. Then, once we
know how many there are and their lengths, we can put them all
together in a string. */
struct flag
{
struct flag *next;
const struct command_switch *cs;
const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
\
struct flag *new = alloca (sizeof (struct flag));
new->cs = cs;
\
new->arg = (ARG);
\
new->next = 0;
\
if (! flags)
\
flags = new;
\
else
\

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last->next = new;                       
last = new;                           
if (new->arg == 0)                      
    /* Just a single flag letter: " -x" */
    flagslen += 3;                      
else                                     
    /* " -xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));
    if (!short_option (cs->c))          
        /* This switch has no single-letter version, so we use the long. */
        flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
if (cs->toenv && (!makefile || !cs->no_makefile))
    switch (cs->type)
    {
    case ignore:
        break;

    case flag:
    case flag_off:
        if (((int *) cs->value_ptr) == (cs->type == flag_off)
            && (cs->default_value == 0
                || *(int *) cs->value_ptr != *(int *) cs->default_value))
            ADD_FLAG (0, 0);
        break;

    case positive_int:
        if (all)
        {
            if ((cs->default_value != 0
                && (*(unsigned int *) cs->value_ptr
                    == *(unsigned int *) cs->default_value))
                break;
            else if (cs->noarg_value != 0
                && (*(unsigned int *) cs->value_ptr == *(unsigned int *) cs->noarg_value))
                ADD_FLAG ("", 0); /* Optional value omitted; see below. */
            else
            {
                char *buf = alloca (30);
                sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
                ADD_FLAG (buf, strlen (buf));
            }
        }
        break;
#ifndef NO_FLOAT
    case floating:
        if (all)
        {
            if (cs->default_value != 0
                && *(double *) cs->value_ptr
                == *(double *) cs->default_value)
                break;
            else if (cs->noarg_value != 0
                && *(double *) cs->value_ptr
                == *(double *) cs->noarg_value))
                ADD_FLAG ("", 0); /* Optional value omitted; see below. */
            else
            {
                char *buf = alloca (100);
                sprintf (buf, "%g", *(double *) cs->value_ptr);
                ADD_FLAG (buf, strlen (buf));
            }
        }
    break;
#endif
    case string:
        if (all)
        {
            p = *(char **)cs->value_ptr;
            if (p)
                ADD_FLAG (p, strlen (p));
        }
    break;
    case filename:
    case strlist:
        if (all)
        {
            struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
            if (sl != 0)
            {
                unsigned int i;
                for (i = 0; i < sl->idx; ++i)
                    ADD_FLAG (sl->list[i], strlen (sl->list[i]));
            }
        }
    break;
    default:
        abort ( );
    }
#undef ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING. */
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' ';  
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
        
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }

/* An omitted optional argument has an ARG of "". */
if (flags->arg && flags->arg[0] != '\0')
{
    if (!short_option (flags->cs->c))
        /* Long options require '='. */
        *p++ = '=';
    p = quote_for_env (p, flags->arg);
}
flags = flags->next;
}
/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
define_variable_cname("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
    o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */
    strcpy (p, " -- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
/** This used to use o_env, but that lost when a makefile defined MAKEFLAGS. Makefiles set MAKEFLAGS to add switches, but we still want to redefine its value with the full set of switches. Then we used o_file, but that lost when users added -e, causing a previous MAKEFLAGS env. var. to take precedence over the new one. Of course, an override or command definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring, env_overrides ? o_env_override : o_file, 1);

/* Print version information. */

static void
print_version (void)
{
static int printed_version = 0;

const char *precede = print_data_base_flag ? "# " : "";

if (printed_version)
/* Do it only once. */
return;

printf ("%sGNU Make %s\n", precede, version_string);

if (!remote_description || *remote_description == '0')
printf ("(%sBuilt for %s\n", precede, make_host);
else
printf ("(%sBuilt for %s (%s)\n", precede, make_host, remote_description);

/* Print this untranslated. The coding standards recommend translating the (C) to the copyright symbol, but this string is going to change every year, and none of the rest of it should be translated (including the word "Copyright"), so it hardly seems worth it. */

printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n%sThis is free software: you are free to change and redistribute it.\n%sThere is NO WARRANTY, to the extent permitted by law.\n"), precede, precede, precede);

printed_version = 1;
/* Flush stdout so the user doesn't have to wait to see the
 version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf (_("\n# Make data base, printed on %s"), ctime (&when));

    print_variable_data_base ();
    print_dir_data_base ();
    print_rule_data_base ();
    print_file_data_base ();
    print_vpath_data_base ();
    strcache_print_stats ("#");

    when = time ((time_t *) 0);
    printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
    /* Sanity: have we written all our jobserver tokens back? If our
 exit status is 2 that means some kind of syntax error; we might not
 have written all our tokens so do that now. If tokens are left
 after any other error code, that's bad. */

    if (jobserver_enabled() && jobserver_tokens)
    {
        if (status != 2)
            ON (error, NILF,
                "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
                jobserver_tokens);
        else
            /* Don't write back the "free" token */
            while (--jobserver_tokens)
                jobserver_release (0);
    }
/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all();

    if (tokens != master_job_slots)
        ONN (error, NILF,
             "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
             tokens, master_job_slots);

    reset_jobserver();
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base();

        if (verify_flag)
            verify_file_data_base();
    }
}
clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
    $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

    OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
 MS-DOS (where there is really only one process), and on Unix it
 puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
 of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}

exit (status);
}

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```c
/**
 * @file    vl53l0x_class.cpp
 * @author  IMG
 * @version V0.0.1
 * @date    28-June-2016
 * @brief   Implementation file for the VL53L0X driver class
 */

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******************************************************************************
* @file    RangeSensor.h
* @author  AST / EST
* @version V0.0.1
* @date    13-April-2015
* @brief   This file contains the abstract class describing in general
            the interfaces of a range sensor
******************************************************************************

/**
 * @file    RangeSensor.h
 * @author  AST / EST
 * @version V0.0.1
 * @date    13-April-2015
 * @brief   This file contains the abstract class describing in general
 *          the interfaces of a range sensor
 * @attention
 *          
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*****************************************************************************/

/**
 * @file DISCO_IOT_53L0A1_DataLogTerminal.ino
 * @author WI6LABS from AST
 * @version V1.0.0
 * @date 07 July 2017
 * @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
 *        based on FlightSense.
 *        This application makes use of C++ classes obtained from the C
 *        components' drivers.
 *****************************************************************************/

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  VL53L0X-
13c23c5/examples/DISCO_IOT_53L0A1_DataLogTerminal/DISCO_IOT_53L0A1_DataLogTerminal.ino
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/**
*****************************************************************************/

* @file    DISCO_IOT_53L0A1_Gesture_Swipe1.ino
* @author  WI6LABS from AST
* @version V1.0.0
* @date    07 July 2017
* @brief   Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
*          based on FlightSense and gesture library.
*          This application makes use of C++ classes obtained from the C
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/**
******************************************************************************
* @file ComponentObject.h
* @author AST
* @version V1.0.0
* @date April 13th, 2015
* @brief This file contains the abstract class describing the interface of a
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******************************************************************************
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Also thanks to all the people who reported bugs and suggested new features.

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1.151 llvm-project-source-9.0.1 9.0.1 r0

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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> undef, <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> undef, <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}

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; 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
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef 
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
} 

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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
; VEC512-LABEL: 'zext256'
; 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
;
\%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 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
;
; 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>
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; 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 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 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>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 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 -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, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

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

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

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; RUN: opt %s -inline -S | FileCheck %s

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

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

define internal void @innerNoAttribute() {
  ret void
}

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

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

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

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

; CHECK: define void @outerNoAttribute() {

---

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; 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: %2 = inttoptr i32 %[[M1]], 4
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; 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 %[[M3]] to i8*
; 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 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; 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

@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: %2 = inttoptr i32 %[[C2]], 4
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]], 32
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %6 = inttoptr i32 %[[C2]], 62
; 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: %10 = inttoptr i32 %[[C1]], 22
; 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
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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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol

LINK_COMPONENTS
  Support
)

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# Please keep the list sorted.
; 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, %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
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; 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:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: 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
}
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
}

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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 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%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

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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: 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 32(%rsi), %ymm1, %ymm0
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    ; %x = load <64 x i8>, <64 x i8>* %xptr
    ; %y = load <64 x i8>, <64 x i8>* %yptr
    ; %cmp = icmp ult <64 x i8> %x, %y
    ; %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    ; %res = sub <64 x i8> %max, %y
    ; store <64 x i8> %res, <64 x i8>* %zptr
    ; ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:    vpmaddwd %ymm1, %ymm5, %ymm3
    ; CHECK-NEXT:    vpmaddwd %ymm2, %ymm5, %ymm3
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB8_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpadd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:    vpadd %ymm0, %ymm2, %ymm0
    ; CHECK-NEXT:    vpadd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
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>*</n
  %6 = sext <32 x i8> %4
  %7 = getelementptr inbounds i8, i8* %0, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*</n
  %9 = sext <32 x i8> %7
  %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, i32
  undef, i32 undef, i32 undef>
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
  12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
  i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx, <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, i32 undef>
  %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17

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%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  ; CHECK-NEXT:    entry:
  %3 = zext i32 %2 to i64
  br label %vector.body
  ; CHECK-NEXT:  vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %i11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index

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%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> <32 x i32> %9, %6
%11 = add nsw <32 x i32> %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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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 unde

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

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:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %ymm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %xmm1, %ymm0, %xmm0
; 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: %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
; CHECK-NEXT: %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
; CHECK-NEXT: %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
; CHECK-NEXT: %1 = bitcast i8* %0 to <16 x i8>*
; CHECK-NEXT: %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
; CHECK-NEXT: %2 = zext <16 x i8> %wide.load to <16 x i32>
; CHECK-NEXT: %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
; CHECK-NEXT: %4 = bitcast i8* %3 to <16 x i8>*
; CHECK-NEXT: %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
; CHECK-NEXT: %5 = zext <16 x i8> %wide.load1 to <16 x i32>
; CHECK-NEXT: %6 = sub nsw <16 x i32> %2, %5
; CHECK-NEXT: %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
; CHECK-NEXT: %8 = sub nsw <16 x i32> zeroinitializer, %6
; CHECK-NEXT: %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
; CHECK-NEXT: %10 = add nsw <16 x i32> %9, %vec.phi
; CHECK-NEXT: %index.next = add i64 %index.next, 1024
; CHECK-NEXT: br i1 %11, label %middle.block, label %vector.body

middle.block:

---

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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:    vpaddd %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:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %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:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vmovd %zmm0, %eax
; CHECK-NEXT:    retq
; CHECK-NEXT: 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> %index
%8 = sub nsw <16 x i32> zeroinitializer, %6
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:    vpmovmd %k1, %ymm0
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> %12, %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 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.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
   %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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, 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 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:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %zmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %l, <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:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpmovm2d %k0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm2, 96(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
}
define void @sbito16f64_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, zeroinitialize
    %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:    vpsrlq %y31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vpsrlq %y31, %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, zeroinitialize
    %1 = ucomi %a, zeroinitialize
    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:    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, zeroinitialize
    %1 = ucomi %a, zeroinitialize
    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" {
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = uitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}
; 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: vcvtpq2dq (%rdi), %ymm1
; CHECK-NEXT: vpsqld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmdm2m %ymm1, %k0
; CHECK-NEXT: vcvtpq2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpsqld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmdm2m %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_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK-NEXT: vcvtpq2dq (%rdi), %zmm1
; CHECK-NEXT: vpsqld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmdm2m %zmm1, %k1
; CHECK-NEXT: vcvtpq2dq 32(%rdi), %zmm1
; CHECK-NEXT: vpsqld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmdm2m %zmm1, %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_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: vcvtpq2dq (%rdi), %zmm1
; CHECK-NEXT: vpsqld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmdm2m %zmm1, %k1
; CHECK-NEXT: vcvtpq2dq 32(%rdi), %zmm1
; CHECK-NEXT: vpsqld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmdm2m %zmm1, %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
}
; CHECK-NEXT: store <16 x float>, <16 x float>* %ptr
; 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> zeroinitialize
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: vcvtpsdq (%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> zeroinitialize
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 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
[26], zmm1[27], zmm0[27], zmm1[28], zmm0[28], zmm1[29], zmm0[29], zmm1[30], zmm0[30], zmm1[31], zmm0[31], zmm1[40], zmm0[40], zmm1[41], zmm0[41], zmm1[42], zmm0[42], zmm1[43], zmm0[43], zmm1[44], zmm0[44], zmm1[45], zmm0[45], zmm1[46], zmm0[46], zmm1[47], zmm0[47], zmm1[56], zmm0[56], zmm1[57], zmm0[57], zmm1[58], zmm0[58], zmm1[60], zmm0[60], zmm1[61], zmm0[61], zmm1[62], zmm0[62], zmm1[63], zmm0[63] };
CHECK-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, 42, 42, 43, 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-NEXT: vmovdqa64 {{.*#+}} zmm3 =
CHECK-NEXT: vpandq %zmm3, %zmm2, %zmm2
CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
CHECK-NEXT: vmovdqa64 {{.*#+}} zmm3 =
  zmm0[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, 32, 32, 33, 33, 34, 34, 35, 35, 36, 36, 37, 37, 38, 38, 39, 39, 48, 48, 49, 49, 50, 50, 51, 51, 52, 52, 53, 53, 54, 54, 55, 55]
CHECK-NEXT: vzeroupper
CHECK-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, zeroinitialize
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #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_prefer512(<8 x i64>* %arg) #0 {
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    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
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<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
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  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
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  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
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  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 promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #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) #1 {
  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
}
%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
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
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
}
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_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
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  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 = 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
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>*readonly %arg1) #3 {
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 {
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
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>*readonly %arg1) #4 {
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 {
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 -mattr=+-mmx -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.

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)
}

; CHECK-NEXT: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
; CHECK-NEXT    callq __subtf3
; CHECK-NEXT    testl %ebx, %ebx
; CHECK-NEXT    jg .LBB0_2
; CHECK-NEXT    movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT    addq %32, %rsp
; CHECK-NEXT    popq %rbx
; CHECK-NEXT    retq

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
}
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
}

define fp128 @TestFfabs(fp128 %a, %xmm0) {
    andps .LCPI1_0(%rip), %xmm0
    retq
}

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1.153 libverto 0.3.0-5.el8

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1.155 busybox 1.31.0 r0

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16
xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.162 pps-tools 1.0.2 r0

1.163 python3-bcrypt 3.1.4 r0

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1.164 pam 1.3.1-14.el8

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src/progname.c
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include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/heapsort.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/queue.3bsd
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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c
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man/byteorder.3bsd
man/closefrom.3bsd
man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
src/hash/sha512.c
src/hash/sha512.c
src/pidfile.c
src/reallocf.c
src/timeconv.c

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include/bsd/sys/tree.h
Files:

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- src/readpassphrase.3bsd
- src/strlcpy.3bsd
- src/strtonum.3bsd
- src/arc4random.c
- src/arc4random_linux.h
- src/arc4random_openbsd.h
- src/arc4random_uniform.c
- src/arc4random_unix.h
- src/arc4random_win.h
- src/closefrom.c
- src/getentropy_aix.c
- src/getentropy_bsd.c
- src/getentropy_hpux.c
- src/getentropy_hurd.c
- src/getentropy_linux.c
- src/getentropy_osx.c
- src/getentropy_solaris.c
- src/getentropy_win.c
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1.170 libpcre 8.43 r0

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1.171 zlib 1.2.7-18.el7
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1.172 python-pytest 5.1.3 r0

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1.173 ima-evm-utils 1.1-5.el8

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1.175 fuse 2.9.9 r0

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#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTO_OFFICER "7f92562d409e903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/ec/ec2_smpl.c
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* Developers and authors:
* Shay Gueron (1, 2), and Vlad Krasnov (1)
* (1) Intel Corporation, Israel Development Center           *
* (2) University of Haifa                                    *
* Reference:                                                 *
* S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with *
* 256 Bit Primes"                                           *
*                                                            *
******************************************************************************/

Found in path(s):
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* kdf/kdf_ikev2.c - Key Derivation Functions for IKEv2
* *
* April 2015
* *
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* *------------------------------------------------------------------
*/

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* kdf/kdf.h - Key Derivation Function header file
* February 2015
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*------------------------------------------------------------------
*/

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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a.201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/hmac/fips_hmac_selftest.c
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a.201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips.c

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/*.c>, <crypto/*/*.c>, <ssl/*.c>, <apps/*.c>)

When this option is NOT specified, the filelist is taken from
the commandline instead. Here, wildcards may be embedded. (Be
sure to escape those to prevent the shell from expanding them
for you when you wish mkerr.pl to do so instead.)
Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error
and function codes as extracted from the scanned header files;
instead renumber all of them starting from 100. (Note that
the numbers assigned through 'R' records in the config file
remain intact.)
Default: keep previously assigned numbers. (You are warned
when collisions are detected.)

-nostatic Generates a different source code, where these additional
functions are generated for each library specified in the
config file:
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,OPENSSL_FILE,OPENSSL_LINE)
while the code facilitates the use of these in an environment
where the error support routines are dynamically loaded at
runtime.
Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.
    Default: don't write any scope modifier prefix.

-unref    Print out unreferenced function and reason codes.

-write    Actually (over)write the generated code to the header and C
        source files as assigned to each library through the config
        file.
        Default: don't write.

-help / -h / -? / --help    Show this help text.

...    Additional arguments are added to the file list to scan,
        assuming '-recurse' was NOT specified on the command line.

EOF
exit 1;
} else {
  last;
}

if($recurse) {
  @source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>, <ssl/*/*.c> )
} else {
  @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
  if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
    $hinc{$1} = $2;
    $libinc{$2} = $1;
    $cskip{$3} = $1;
    if($3 ne "NONE") {
      $src{$1} = $3;
      $fmax{$1} = 100;
      $rmax{$1} = 100;
      $fassigned{$1} = ";";
      $rassigned{$1} = ";";
    } else {
      $src{$1} = ";";
      $fmax{$1} = 0;
      $rmax{$1} = 0;
      $fassigned{$1} = ";";
      $rassigned{$1} = ";";
    }
  }
  else {
    if($3 eq "NEW") {
      $src{$1} = $3;
      $fmax{$1} = 100;
      $rmax{$1} = 100;
      $fassigned{$1} = ";";
      $rassigned{$1} = ";";
    } else {
      $src{$1} = ";";
      $fmax{$1} = 0;
      $rmax{$1} = 0;
      $fassigned{$1} = ";";
      $rassigned{$1} = ";";
    }
  }
}

# Write generated code

write($hinc)
write($libinc)
write($cskip)
write($src)
write($fmax)
write($rmax)
write($fassigned)
write($rassigned)

# End of script
$new{$1} = 0;
$rnew{$1} = 0;
}
} elsif (/^F\s+(\S+)/) {
    # Add extra function with $1
    } elsif (/^R\s+(\S+)\s+(\S+)/) {
        $rextra{$1} = $2;
        $rcodes{$1} = $2;
    }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
    next if($hdr eq "NONE");
    print STDERR "Scanning header file $hdr\n" if $debug;
    my $line = "", $def="", $linenr = 0, $gotfile = 0, $cpp = 0;
    if (open(IN, "<$hdr")) {
        $gotfile = 1;
        while(<IN>) {
            $linenr++;
            print STDERR "line: $linenr\r" if $debug;
            last if(/BEGIN\s+ERROR\s+CODES/);
            if ($line ne '') {
                $_ = $line . $_;
                $line = "";
            }
            if(/\$/) {
                $line = $_;
                next;
            }
            if(/\*/) {
                if (not /\*/\/) { # multiline comment...
                    $line = $_.# ... just accumulate
                next;
                } else {
                    s/\*.\*\//gs;# wipe it
                }
            }
            if ($cpp) {
                
            }
        }
    }
    if (/\$/) {
        $line = $_.
        next;
    }
    if(/\^/) {
        if (not /\^\/) { # multiline comment...
            $line = $_.# ... just accumulate
        next;
        } else {
            s/\^\.*\^\//gs;# wipe it
        }
    }
    if ($cpp) {
        
    }
}
$cpp++ if /^#.*if/;
$cpp-- if /^#.*endif/;
next;
}

$cpp = 1 if /^#.*ifdef.*cplusplus/;  # skip "C" declaration
next if (/^#/);                      # skip preprocessor directives
s/^[{]*]/gs;                      # ignore [] blocks

if (/(?![^/]*[^/]+)/) { # Add a } so editor works...
  $line = $_;
} else {
  $def .= $_;
}

# The goal is to collect function names from function declarations.
s/^[\n\s]*//g;
s/[^\n\s]+$/g;

# Skip over recognized non-function declarations
next if(/typedef/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

# Remove STACK_OF(foo)
s/STACK_OF\(.*\)/void/;

# Reduce argument lists to empty ()  
# fold round brackets recursively: \(t\)*\(t\).\(-t\) -> (t[]) . -> {}
while((/\(,\*\)/gs) {
  s/^[{]*]/\{\}/gs;
s/[^\n\s]+*\(\(w+\)s*[^\n\s]+s*\)/$1\gs;/(*f{}) -> f
  }
# pretend as we didn't use curly braces: {} - > ()
s/\(\{\}/\}/gs;

if (/\(w+\)s*\)/.*/s) [# first token prior [first] () is
my $name = $1;# a function name!
$name =~ tr/[a-z]/[A-Z]/;
$ftrans{$name} = $1;
} elsif (/\[\(\)\]/ and not (/=/)) {
print STDERR "Header $hdr: cannot parse: \$_\n";
}
}

print STDERR " \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
    while(<IN>) {
if(/\^\#\s*define\s+(\S+)\s+(\S+)/) {
    $name = $1;
    $code = $2;
    next if $name =~ /^${lib}err/;
    unless($name =~ /^${lib}_(\[RF\])_(\w+)$/) {
        print STDERR "Invalid error code $name\n";
        next;
    }
    if($1 eq "R") {
        $rcodes{$name} = $code;
        if ($rassigned{${lib}} =~ /:$code:/) {
            print STDERR "!! ERROR: ${lib} reason code $code assigned twice (collision at $name)\n";
            ++$errcount;
        }
        $rassigned{${lib}} .= "$code:"
    } else {
        if (!$extra{$name}) {
            ($code > $rmax{${lib}}) ) {
                $rmax{${lib}} = $code;
            }
        } else {
            print STDERR "!! ERROR: ${lib} reason code $code assigned twice (collision at $name)\n";
            ++$errcount;
        }
        $rassigned{${lib}} .= "$code:"
    }
    if (!$fassigned{${lib}} =~ /:$code:/) {
        print STDERR "!! ERROR: ${lib} function code $code assigned twice (collision at $name)\n";
        ++$errcount;
    }
    $fassigned{${lib}} .= "$code:"
    if($code > $fmax{${lib}}) {
        $fmax{${lib}} = $code;
    }
    $fcodes{$name} = $code;
    }
} else {
    print STDERR "!! ERROR: function code $code assigned twice (collision at $name)\n";
    ++$errcount;
    }
}
if ($debug) {
  if (defined($fmax{$lib})) {
    print STDERR "Max function code fmax" . "" . "$lib" . "" = $fmax{$lib}\\n";
    @fassigned{$lib} =~ m/^:([^:]+):$/;
    @fassigned = sort { $a <=> $b } split(":\", $1);
    print STDERR " @fassigned\\n";
  }
  if (defined($rmax{$lib})) {
    print STDERR "Max reason code rmax" . "" . "$lib" . "" = $rmax{$lib}\\n";
    @rassigned{$lib} =~ m/^:([^:]+):$/;
    @rassigned = sort { $a <=> $b } split(":\", $1);
    print STDERR " @rassigned\\n";
  }
}

if ($lib eq "SSL") {
  if ($rmax{$lib} >= 1000) {
    print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\\n";
    print STDERR "!! Any new alerts must be added to $config\\n";
    ++$errcount;
    print STDERR "\\n";
  }
}

foreach $file (@source) {
  print STDERR "File loaded: "$file . "\r" if $debug;
  open(IN, "<$file") || die "Can't open source file $file\\n";
  my $func;
  my $linenr = 0;
  while(<IN>) {
    # Scan each C source file and look for function and reason codes
    # This is done by looking for strings that "look like" function or
    # reason codes: basically anything consisting of all upper case and
    # numerics which has _F_ or _R_ in it and which has the name of an
    # error library at the start. This seems to work fine except for the
    # oddly named structure BIO_F_CTX which needs to be ignored.
    # If a code doesn't exist in list compiled from headers then mark it
    # with the value "X" as a place holder to give it a value later.
    # Store all function and reason codes found in %ufcodes and %urcodes
    # so all those unreferenced can be printed out.

# skip obsoleted source files entirely!
last if(/#error|s+obsolete/);
$linenr++;
if (/^[a-zA-Z_][*][s*])?([A-Za-z_0-9]+)(.*[a-zA-Z_0-9])$/
{  
  $1 =~ /([A-Za-z_0-9]*)$/;
  $1 = $lib{1} =~ /([A-Za-z_0-9]+)*$/;
  $func = $1;
}

if(/([a-zA-Z_0-9]+)_F_([a-zA-Z_0-9]+)/) {  
  next unless exists $csrc{$2};
  next if($1 eq "BIO_F_BUFFER_CTX");
  $ufcodes{$1} = 1;
  if(!exists $fcodes{$1}) {
    $fcodes{$1} = "X";
    $fnew{$2}++;
  }
  $func{ } = $func unless exists $func{ };
  if (uc $func ne $3) {
    print STDERR "ERROR: mismatch $file:$linenr $func:$3\n";
    $errcount++;
  }
  print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
}

if(/([a-zA-Z_0-9]+)_R_(a-zA-Z_0-9+)/) {  
  next unless exists $csrc{$2};
  $urcodes{$1} = 1;
  if(!exists $rcodes{$1}) {
    $rcodes{$1} = "X";
    $rnew{$2}++;
  }
  print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
}

foreach $lib (keys %csrc) {
  my $hfile = $hinc{$lib};
  my $cfile = $csrc{$lib};
  if(!$fnew{$lib} && !$rnew{$lib}) {
    next unless $rebuild;
  } else {

  }
}

# Now process each library in turn.

foreach $lib (keys %csrc) {
  my $hfile = $hinc{$lib};
  my $cfile = $csrc{$lib};
  if(!$fnew{$lib} && !$rnew{$lib}) {
    next unless $rebuild;
  } else {

  }

}
print STDERR "${lib}: $new{${lib}} New Functions.
print STDERR " $new{${lib}} New Reasons.
next unless $dowrite;
}

# If we get here then we have some new error codes so we
# need to rebuild the header file and C file.

# Make a sorted list of error and reason codes for later use.

my @function = sort grep(/^${lib}_/i,keys %fcodes);
my @reasons = sort grep(/^${lib}_/i,keys %rcodes);

# Rewrite the header file

$cpp = 0;
$cplusplus = 0;
if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
        $cplusplus = $cpp if /^#.*ifdef.*cplusplus/;
        $cpp++ if /^#\s*if/;
        $cpp-- if /^#\s*endif/;
        push @out, $_;
        last if (/BEGIN ERROR CODES/);
    }
    close IN;
} else {
    $cpp = 1;
    $cplusplus = 1;
    push @out, "/*
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     * https://www.openssl.org/source/license.html
     */
     
     #ifndef HEADER_${lib}_ERR_H
     # define HEADER_${lib}_ERR_H
     
     #ifdef __cplusplus
     extern "C"
     {
     #endif
     
     /* BEGIN ERROR CODES */

open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n"

print OUT @out;
undef @out;
print OUT <<"EOF";
/*
 * The following lines are auto generated by the script mkerr.pl. Any changes
 * made after this point may be overwritten when the script is next run.
 */

EOF
if($static) {
print OUT <<"EOF";
${staticloader}int ERR_load_${lib}_strings(void);

EOF
} else {
print OUT <<"EOF";
${staticloader}int ERR_load_${lib}_strings(void);
${staticloader}void ERR_unload_${lib}_strings(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line);
# define ${lib}err(f,r) ERR_${lib}_error((f),(r),OPENSSL_FILE,OPENSSL_LINE)

EOF
}
print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

foreach $i (@function) {
$z=48 - length($i);
if($fcodes{$i} eq "X") {
$fassigned{$lib} =~ m/^:(\[^:\]*):/;
$findcode = $1;
if (!defined($findcode)) {
$findcode = $fmax{$lib};
}
while ($fassigned{$lib} =~ m/:$findcode:/) {
$findcode++;
}
$fcodes{$i} = $findcode;
$fassigned{$lib} .= "$findcode:";
print STDERR "New Function code $i\n" if $debug;
}
printf OUT "# define $i%s $fcodes{$i}\n"," x $z;
print OUT "\n/* Reason codes. */
"

foreach $i (@reasons) {
$z=48 - length($i);
if($rcodes{$i} eq "X") {
$assigned{${lib}} =~ m/^:(\[^:]*):/;
$findcode = $1;
if (!defined($findcode)) {
$findcode = $rmax{${lib}};
}
while ($assigned{${lib}} =~ m/:$findcode:/) {
$findcode++;
}
$rcodes{$i} = $findcode;
$assigned{${lib}} .= "$findcode:";
print STDERR "New Reason code $i
" if $debug;
}
printf OUT "# define $i%s $rcodes{$i}n"," " x $z;
}
print OUT <"EOF";

EOF

do {
  if ($cpp-- > 0) {
    printf OUT "#", "x$cpp, "endif\nn";
  }
  if ($cplusplus == $cpp) {
    printf OUT "#", "x$cpp, "ifdef  __cplusplus
";      printf OUT "\n";
    printf OUT "#", "x$cpp, "endif\n";
  }
} while ($cpp);
close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$cfile")) {
  my $line = ""
  while (<IN>) {
    s|R$|; # Better chomp
    $line .= $_;
   if (/ERR_(FUNC|REASON)\(/) {
      if (/\b(${lib}_R\w*)\b.*"(.*)"/) {
        my $r = $2;
        $err_reason_strings{$r} = $1;
      }
    }
  }
  close(IN);
  close OUT;
}
$err_reason_strings{$1} = $2;
} elsif (/${lib}_F_(\w*)\b.*"(.*)"/) {
if (!exists $ftrans{$1} && ($1 ne $2)) {
    print STDERR "WARNING: Mismatched function string $2\n"
    $ftrans{$1} = $2;
} else {
    $line = $_.;
} 
} 
} 
} 
}
close(IN);

my $hincf;
if($static) {
    $hincf = $hfile;
    $hincf =~ s|.*include/||;
    if ($hincf =~ m|^openssl/|) {
        $hincf = "<${hincf}>";
    } else {
        $hincf = "\"${hincf}\"";
    } else {
        $hincf = "\"$hfile\"";
    }
} else {
    $hincf = "\"$hfile\"";
}

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
{
    $pack_errcode = "ERR_LIB_${lib}";
    $load_errcode = "0";
} else
{
    $pack_errcode = "0";
    $load_errcode = "ERR_LIB_${lib}";
}

open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT "<EOF";
/*
* Generated by util/mkerr.pl DO NOT EDIT
*/
#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#endif OPENSSL_NO_ERR

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_functs[] = {
EOF
    EOF
}

static ERR_STRING_DATA ${lib}_str_reasons[] = {
...
}

# Add each reason code.
foreach $i (@reasons) {
    my $rn;
    my $str = "$ERR_REASON($i)"
    if (exists $err_reason_strings{$i}) {
        $rn = $err_reason_strings{$i};
    } else {
...
}
$i =~ /\$\{lib\}_R_(\S+)\$/;  
$r1 = $1;  
$r2 = tr/_/[A-Z]/ [a-z]/;  
}  
if(length($i) + length($r1) > 55) {  
print OUT " \$rstr, \n"$rstr\",\n";  
} else {  
print OUT " \$rstr, \n"$rstr\",\n";  
}  
}  
if($static) {  
print OUT <<EOF;  
{0, NULL}  
};  

#define ERR_load_${lib}_strings(void)  
{  
ifndef OPENSSL_NO_ERR  

if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL) {  
    ERR_load_strings($load_errcode, ${lib}_str_functs);  
    ERR_load_strings($load_errcode, ${lib}_str_reasons);  
}  
#endif  
return 1;  
}  
EOF  
} else {  
print OUT <<EOF;  
{0, NULL}  
};  

#define ${lib}_LIB_NAME  
static ERR_STRING_DATA ${lib}_lib_name[] = {  
    {0, "${lib}_LIB_NAME"},  
    {0, NULL}  
};  
#endif  

static int ${lib}_lib_error_code = 0;  
static int ${lib}_error_init = 1;  

${staticloader}int ERR_load_${lib}_strings(void)  
{
if (${lib}_lib_error_code == 0)
  ${lib}_lib_error_code = ERR_get_next_error_library();

if (${lib}_error_init) {
  ${lib}_error_init = 0;
#endif

  if (${lib}_LIB_NAME)
    ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code, 0, 0);
    ERR_load_strings(0, ${lib}_lib_name);
#endif

${staticloader}void ERR_unload_${lib}_strings(void)
{
  if (${lib}_error_init == 0) {
    #ifndef OPENSSL_NO_ERR
      ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_functs);
      ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_reasons);
    #endif

    #ifdef ${lib}_LIB_NAME
      ERR_unload_strings(0, ${lib}_lib_name);
    #endif
    ${lib}_error_init = 1;
  }
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
  if (${lib}_lib_error_code == 0)
    ${lib}_lib_error_code = ERR_get_next_error_library();
  ERR_PUT_error(${lib}_lib_error_code, function, reason, file, line);
}
EOF

close OUT;
undef %err_reason_strings;
}

if($debug && %notrans) {


print STDERR "The following function codes were not translated:
";
foreach(sort keys %notrans)
{
    print STDERR "$_
";
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
push (@funref, $_) unless exists $ufcodes{$_};
}

foreach (keys %rcodes) {
push (@runref, $_) unless exists $urcodes{$_};
}

if($unref && @funref) {
    print STDERR "The following function codes were not referenced:
";
    foreach(sort @funref)
    {
        print STDERR "$_
";
    }
}

if($unref && @runref) {
    print STDERR "The following reason codes were not referenced:
";
    foreach(sort @runref)
    {
        print STDERR "$_
";
    }
}

if($errcount) {
    print STDERR "There were errors, failing...
";
    exit $errcount;
}

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* *
* February 2015
* *
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#
# This is just a quick script to scan for cases where the 'error'
# function name in a XXXerr() macro is wrong.
#
# Run in the top level by going
# perl util/ck_errf.pl */*.c */*/.c
#
# my $err_strict = 0;
my $bad = 0;

foreach $file (@ARGV)
{
if ($file eq "-strict")
{
$err_strict = 1;
next;
}
open(IN,"<$file") || die "unable to open $file\n";
$func="";
while (<IN>)
{
  last if(/^#error\s+obsolete/);
  if (!/;/ & & /\^\*([a-zA-Z_\-\.]*[$\*])+([A-Za-z_0-9]+)+.*)$)/
  {
  $1 =~ /([A-Za-z_0-9]+)err\([\^,]+\)/ & & !/ckerr_ignore/)
  {
  $errlib=$1;
  $n=$2;
  if ($func eq "")
  { print "$file:.$:.:???:$n\n"; $bad = 1; next; }
  if ($func eq "")
  { print "$file:.$:.:???:$n\n"; $bad = 1; next; }
  $func =~ tr/A-Z/a-z/;
  if (($n ne $func) & & ($errlib ne "SYS")
  { print "$func:.$:.:???:$n\n"; $bad = 1; next; }
  $n =~ tr/A-Z/a-z/;
  if ($n ne $errlib)
  { print "$func:.$:.:???:$n\n"; $bad = 1; next; }
  $n =~ tr/A-Z/a-z/;
  if ($n ne $func) & & ($errlib ne "SYS")
  { print "$func:.$:.:???:$n\n"; $bad = 1; next; }
  $n =~ tr/A-Z/a-z/;
  if ($n ne $func)
  { print "$func:.$:.:???:$n\n"; $bad = 1; next; }
  }
  close(IN);
if ($bad && $err_strict)
{
    print STDERR "FATAL: error discrepancy\n";
    exit 1;
}

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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

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fips/fips_test_suite.c

Contributed by Steve Marquess.

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fips_test_suite.c

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/ *
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* 
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* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d868f4fde86cciscoss-fom-7-
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* crypto/des/asm/des_enc-octeon.c - Cavium Octeon specific hardware assist
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscoss-fom-7-0a-201904062312-tar-gz/ciscoss-fom-7.0a.201904062312/crypto/ex_data.c
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscoss-fom-7-0a-201904062312-tar-gz/ciscoss-fom-7.0a.201904062312/crypto/dsa/dsa_ossl.c
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#!/usr/bin/env perl

# ====================================================================
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL.
# The module is, however, dual licensed under OpenSSL and
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# ====================================================================

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?

# -m64-m32
# ------------------
# PPC970,gcc-4.0.0+76%+59%
# Power6,xlc-7+68%+33%

$flavour = shift;

if ($flavour =~ /64/) {
  $SIZE_T=8;
  $LRSAVE=2*$SIZE_T;
  $UCMP="cmpld";
  $STU="stdu";
  $POP="ld";
  $PUSH="std";
} elsif ($flavour =~ /32/) {
  $SIZE_T=4;
  $LRSAVE=$SIZE_T;
  $UCMP="cmplw";
  $STU="stwu";
  $POP="lwz";
  $PUSH="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*\[\|\\])[^\|\\]+$/; $dir=$1;
( $xlate="$dir ppc-xlate.pl" and -f $xlate ) or
( $xlate="$dir ../../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

open STDOUT,`| $^X $xlate $flavour ".shift || die 'can't call $xlate: $!'`;
$FRAME=24*SIZE_T+64;
$LOCALS=6*SIZE_T;

$K ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A ="r7";
$B ="r8";
$C ="r9";
$D ="r10";
$E ="r11";
$T ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
 "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 { my ($i,$a,$b,$c,$d,$e,$f)=@_; my $j=$i+1; $code.=<<___ if ($i==0);
 lwz	@X[$i],`$i*4`($inp) ___
$code.=<<___ if ($i<15);
 lwz	@X[$j],`$j*4`($inp)
 add	$f,$K,$e
 rotlwi	$e,$a,5
 add	$f,$f,@X[$i]
 and	$t0,$c,$b
 add	$f,$f,$e
 andc	$t1,$d,$b
 rotlwi	$b,$b,30
 or	$t0,$t0,$t1
 add	$f,$f,$t0
 ___
$code.=<<___ if ($i>=15);
 add	$f,$K,$e
 rotlwi	$e,$a,5
 xor	@X[$j%16],@X[$j%16],@X[($j+2)%16]
 add	$f,$f,@X[$i%16]
 and	$t0,$c,$b

___

}
xor @X[j%16], @X[j%16], @X[(j+8)%16]
add $f, $f, $e
andc $t1, $d, $b
rotlwi $b, $b, 30
or $t0, $t0, $t1
xor @X[j%16], @X[j%16], @X[(j+13)%16]
add $f, $f, $t0
rotlwi @X[j%16], @X[j%16], 1
___
}

sub BODY_20_39 {
my ($i, $a, $b, $c, $d, $e, $f) = @_; 
my $j = $i + 1;
$code.=<<___ if ($i<79);
add $f, $K, $e
rotlwi $e, $a, 5
xor @X[j%16], @X[j%16], @X[(j+2)%16]
add $f, $f, @X[$i%16]
xor $t0, $b, $c
xor @X[j%16], @X[j%16], @X[(j+8)%16]
add $f, $f, $e
rotlwi $b, $b, 30
xor $t0, $t0, $d
xor @X[j%16], @X[j%16], @X[(j+13)%16]
add $f, $f, $t0
rotlwi @X[j%16], @X[j%16], 1
___
$code.=<<___ if ($i==79);
add $f, $K, $e
rotlwi $e, $a, 5
lwz $r16, 0($ctx)
add $f, $f, @X[$i%16]
xor $t0, $b, $c
lwz $r17, 4($ctx)
add $f, $f, $e
rotlwi $b, $b, 30
lwz $r17, 4($ctx)
xor $t0, $t0, $d
lwz $r18, 8($ctx)
xor $t0, $t0, $d
lwz $r19, 12($ctx)
add $f, $f, $t0
lwz $r20, 16($ctx)
___
}

sub BODY_40_59 {
my ($i, $a, $b, $c, $d, $e, $f) = @_; 
my $j = $i + 1;
```assembly
$code=<<___;
add$v,$k,$t0
rotlwi$v,5
xor@$t[0],@$t[0],@$t[2]
add$v,$v,$t0
or$t1,$b,$c
rotlwi$b,30
xor@$t[0],@$t[0],@$t[13]
and$t1,$t1,$d
or$t0,$t0,$t1
rotlwi@$t[0],@$t[0].1
add$v,$v,$t0
___
}

$code=<<___;
_machine="any"
_text
.globl.sha1_block_data_order
.align4
.sha1_block_data_order:
$STU$sp,$FRAME($sp)
mflr0
$SPUSHr15,$FRAME-$SIZE_T*17($sp)
$SPUSHr16,$FRAME-$SIZE_T*16($sp)
$SPUSHr17,$FRAME-$SIZE_T*15($sp)
$SPUSHr18,$FRAME-$SIZE_T*14($sp)
$SPUSHr19,$FRAME-$SIZE_T*13($sp)
$SPUSHr20,$FRAME-$SIZE_T*12($sp)
$SPUSHr21,$FRAME-$SIZE_T*11($sp)
$SPUSHr22,$FRAME-$SIZE_T*10($sp)
$SPUSHr23,$FRAME-$SIZE_T*9($sp)
$SPUSHr24,$FRAME-$SIZE_T*8($sp)
$SPUSHr25,$FRAME-$SIZE_T*7($sp)
$SPUSHr26,$FRAME-$SIZE_T*6($sp)
$SPUSHr27,$FRAME-$SIZE_T*5($sp)
$SPUSHr28,$FRAME-$SIZE_T*4($sp)
$SPUSHr29,$FRAME-$SIZE_T*3($sp)
$SPUSHr30,$FRAME-$SIZE_T*2($sp)
$SPUSHr31,$FRAME-$SIZE_T*1($sp)
$SPUSHr0,$FRAME+$LRSAVE($sp)
lwz$A,0($ctx)
lwz$B,4($ctx)
lwz$C,8($ctx)
```
lwz\$D,12($ctx)
lwz\$E,16($ctx)
andi.r0,\$inp,3
bneLunaligned
Laligned:
mtctr$\num
blsha1_block_private
b\Ldone

; PowerPC specification allows an implementation to be ill-behaved upon unaligned access which crosses page boundary. "Better safe than sorry" principle makes me treat it specially. But I don't look for particular offending word, but rather for 64-byte input block which crosses the boundary. Once found that block is aligned and hashed separately...
.align4
Lunaligned:
subfic$t1,\$inp,4096
andi.$t1,\$t1,4095; distance to closest page boundary
srwi.$t1,\$t1,6; t1/=64
beqLcross_page
$UCMP$num,\$t1
bleLaligned; didn't cross the page boundary
mtctr$t1
subfc$num,\$t1,$num
blsha1_block_private
Lcross_page:
li$t1,16
mtctr$t1
addi$r20,\$sp,\$LOCALS; spot within the frame
Lmemcpy:
lbz$r16,0(\$inp)
lbz$r17,1(\$inp)
lbz$r18,2(\$inp)
lbz$r19,3(\$inp)
addi\$inp,\$inp,4
stb$r16,0(r20)
stb$r17,1(r20)
stb$r18,2(r20)
stb$r19,3(r20)
addir20,r20,4
bdnzLmemcpy

SPUSH$\inp,`\$FRAME-$SIZE_T*18`(\$sp)
li$t1,1
addi\$inp,\$sp,\$LOCALS
mtctr$t1
blsha1_block_private
$SPOP$inp,$SFRAME-$SIZE_T*18'($sp)
addic.$num,$num,-1
bne-Lunaligned

Ldone:
$SPOP$r0,$SFRAME+$LRSAVE'($sp)
$SPOP$r15,$SFRAME-$SIZE_T*17'($sp)
$SPOP$r16,$SFRAME-$SIZE_T*16'($sp)
$SPOP$r17,$SFRAME-$SIZE_T*15'($sp)
$SPOP$r18,$SFRAME-$SIZE_T*14'($sp)
$SPOP$r19,$SFRAME-$SIZE_T*13'($sp)
$SPOP$r20,$SFRAME-$SIZE_T*12'($sp)
$SPOP$r21,$SFRAME-$SIZE_T*11'($sp)
$SPOP$r22,$SFRAME-$SIZE_T*10'($sp)
$SPOP$r23,$SFRAME-$SIZE_T*9'($sp)
$SPOP$r24,$SFRAME-$SIZE_T*8'($sp)
$SPOP$r25,$SFRAME-$SIZE_T*7'($sp)
$SPOP$r26,$SFRAME-$SIZE_T*6'($sp)
$SPOP$r27,$SFRAME-$SIZE_T*5'($sp)
$SPOP$r28,$SFRAME-$SIZE_T*4'($sp)
$SPOP$r29,$SFRAME-$SIZE_T*3'($sp)
$SPOP$r30,$SFRAME-$SIZE_T*2'($sp)
$SPOP$r31,$SFRAME-$SIZE_T*1'($sp)
mtlr0
addi$sp,$sp,$SFRAME
blr
.long0
.byte0,12,4,1,0x80,18,3,0
.long0

# This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
$code.=<<___;
.align4
Lsha1_block_private:
___
$code.=<<___;# load K_00_19
lis$K,0x5a82
ori$K,$K,0x7999
___
for($i=0;$i<20;$i++){ &BODY_00_19($i,@V); unshift(@V.pop(@V)); }
$code.=<<___;# load K_20_39
lis$K,0x6ed9
ori$K,$K,0xeba1
___
for($i<40;$i++) { &BODY_20_39($i,@V); unshift(@V.pop(@V)); }
$code.=<<<**;# load K_40_59
lis$K,0x8f1b
ori$K,$K,0xbcdc
***
for($i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<**;# load K_60_79
lis$K,0xca62
ori$K,$K,0xc1d6
***
for($i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<**;
add r16,r16,$E
add r17,r17,$T
add r18,r18,$A
add r19,r19,$B
add r20,r20,$C
stw r16,0($ctx)
mr $A,r16
stw r17,4($ctx)
mr $B,r17
stw r18,8($ctx)
mr $C,r18
stw r19,12($ctx)
mr $D,r19
stw r20,16($ctx)
mr $E,r20
addi $inp,$inp,`16*4`
bdnz-Lsha1_block_private
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
***
$code.=<<<**;
.asciz "SHA1 block transform for PPC, CRYPTOAMS by <appro@fy.chalmers.se>"
***

$code =~ s/\`([^`]*)\`/eval $1/gem;
print $code;
close STDOUT;

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/* *************************************************************************/
* crypto/aes/asm/aes_ccm-octeon.c - Cavium Octeon specific hardware assist
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-colsa/fips_rsa2gtest.c - RSA2 Key Generation algorithm processing

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* fips/kdf/fips_kdf_srtp.c - SRTP KDF vector tests
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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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*/opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a49172522d86864fde86cciscossf-fom-7-0a-201904062312-tar-gz/ciscossf-fom-7.0a.201904062312/fips/des/fips_desmovs.c

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* fips/kdf/fips_kwvs.c - Key Wrap vector tests
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 * fips/embedsig.c - Utility to embed signatures into files on disk
 * *
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 *----------------------------------------------------------------------
 */

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* ==--------------------------------------------------------------------*
* |
* */

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  */opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598e1f8a491722522d86864fde86cciscossf-fom-7-0a.201904062312-tar-gz/ciscossf-fom-7.0a.201904062312/crypto/modes/ofb128.c
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/ *--------------------------------------------------------------------*
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* | March 2015
* |
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* |--------------------------------------------------------------------*
* */

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* /opt/ cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossf-mom-7-0a-201904062312-tar-gz/ciscossf-mom-7.0a.201904062312/crypto/ui/ui.h
* /opt/ cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossf-mom-7-0a-201904062312-tar-gz/ciscossf-mom-7.0a.201904062312/crypto/ui/ui_compat.h
* /opt/ cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossf-mom-7-0a-201904062312-tar-gz/ciscossf-mom-7.0a.201904062312/crypto/ui/ui_locl.h
* /opt/ cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossf-mom-7-0a-201904062312-tar-gz/ciscossf-mom-7.0a.201904062312/crypto/memclr.c
No license file was found, but licenses were detected in source scan.

/* .................................................................
* crypto/des/asm/cbc_enc-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
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* January 2013
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* .................................................................
*/

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* /opt/ cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossf-mom-7-0a-201904062312-tar-gz/ciscossf-mom-7.0a.201904062312/crypto/des/asm/cbc_enc-octeon.c
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/*--------------------------------------------------------------
* fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
* 
* March 2015
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/*--------------------------------------------------------------
* fips/kdf/fips_kdf_snmp.c - SNMP KDF vector tests
* 
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/*--------------------------------------------------------------
* fips/kdf/fips_kdf_802_11i.c - 802_11i KDF vector tests
* 
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*--------------------------------------------------------------
*/
/*------------------------------------------------------------------*/
/*
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a49172252d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/kdf/fips_kdf_802_11i.c
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscoss-fom-7-0a-201904062312-tar-gz/ciscoss-fom-7.0a.201904062312/fips/dsa/fips_dsa_sign.c
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscoss-fom-7-0a-201904062312-tar-gz/ciscoss-fom-7.0a.201904062312/fips/ecdsa/fips_ecdsa_sign.c

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/*-----------------------------------------------
* include/cavium/cvms-aes.h - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
* *
* February 2013
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*/

Found in path(s):
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscoss-fom-7-0a-201904062312-tar-gz/ciscoss-fom-7.0a.201904062312/crypt/cvms-aes.h

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/* -----------------------------------------------
* crypto/aes/asm/aes_cbc-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
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* January 2013
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*-----------------------------------------------
1.177 libcgroup 0.41 r0
1.177.1 Available under license:

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1.178 pythonurllib 1.25.8 r0
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   # Contributions to the urllib3 project

   ## Creator & Maintainer

   * Andrey Petrov <andrey.petrov@shazow.net>
## Contributors

In chronological order:

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

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

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

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

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

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.
* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

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

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

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

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

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

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

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

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

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

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

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

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

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1.179 ppp 2.4.7 r0

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Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium customarily
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@item
Convey the object code in, or embodied in, a physical product
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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
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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.
@end item

@item
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.

@item
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
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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.

@item
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.

@end enumerate

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

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tangible personal property which is normally used for personal,
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``Installation Information'' for a User Product means any methods,
procedures, authorization keys, or other information required to
install and execute modified versions of a covered work in that User
Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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@end enumerate

@end example

@end example
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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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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.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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"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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.187 python3-iso8601 0.1.12 r0

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

"Source code" for a work means the preferred form of the work for
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a) The modified work must itself be a software library.

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

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

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

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

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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. 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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1.205 netcat 0.7.1 r3

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

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1.208 importlib-metadata 0.23-r0

1.208.1 Available under license:
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1.209 iproute 5.9.0-1.el8

1.209.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* exec_debug_routemapapi.h -- Debugging for Route-map API
* *
* May 2003, Tanya Shastri
* *
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemapapi.h
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* protofltr_public.h
* *
* Routing protocol filter manager Public API definitions
* *
* Dec 2008, Mercia Zheng
* *
* Copyright (c) 2008-2009 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/protofltr_public.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*---------------------------------------------------------------
* Registry for IP routing infrastructure in ION
* */
/* June 2002, Donnie Savage */

/* All rights reserved. */
/*---------------------------------------------------------------*/
/* $Log$ */
/*---------------------------------------------------------------*/
/* $Endlog$ */
/* */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/router_af_chain.c
No license file was found, but licenses were detected in source scan.

/*/---------------------------------------------------------------*/
/* router_af_parse_blob.c */
/* */
/* Address family submode command - proxy EOLs */
/* */
/* May 2002, Victor Kamensky */
/* */
/* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc. */
/* All Rights Reserved */
/*---------------------------------------------------------------*/
/* */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/router_af_parse_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_int_ip2_routing.h,v 3.2.60.1 1996/08/12 16:03:24 widmer Exp $ */
/* $Source: /release/112/cvs/Xsys/iprouting/cfg_int_ip2_routing.h,v $ */
/*---------------------------------------------------------------*/
/* cfg_int_ip2_routing.h */
/* */
/* May 1994, Derek Yeung */
/* */
/* All rights reserved. */
/* */
/* IP routing interface commands that must be after the encapsulation command */
/* in NV order. */
/*---------------------------------------------------------------*/
/* $Log: cfg_int_ip2_routing.h,v $ */
/* Revision 3.2.60.1 1996/08/12 16:03:24 widmer */
/* CSCdi65725: Create Eolns macro that defaults csb->which to 0 */
/* Branch: California_branch */
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings

* Revision 3.2 1995/11/17 17:31:23 hampton
* Remove old entries from the RCS header logs.

* Revision 3.1 1995/11/09 12:04:31 shaker
* Bump version numbers from 2.x to 3.x.

* Revision 2.2 1995/08/04 03:07:45 dstine
* CSCdi37681: Need event logging for EIGRP

* Revision 2.1 1995/07/01 12:15:32 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting

* Revision 2.1 1995/06/07 22:05:27 hampton
* Bump version numbers from 1.x to 2.x.

*------------------------------------------------------------------
* $Endlog$
* /

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.h
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* ip_prefixlist_ion.h - IP Prefix Lists support for ION
* 
* June 2002, Siva Yaragalla
* 
* All rights reserved.
*------------------------------------------------------------------
* /

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist_ion.h
No license file was found, but licenses were detected in source scan.

/ *
* Source$ 
*------------------------------------------------------------------
* Address Family configuration mode commands.
* 
* April 1998, Bob Thomas
/*
 * Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_mode.h
No license file was found, but licenses were detected in source scan.

/*
 * routemap_ios_blob.c -- Route map support routines that can be shared
 * by RP and VIP/LC
 *
 * October 14, 2001  Siva Yaragalla
 *
 * Copyright (c) 2001-2020 by cisco Systems, Inc.
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 */

* Nob to allow user to decide whether or not system should sanity check
* source IP address of incoming routing updates.
 *
* March 1994, Bruce Cole
 *
* Copyright (c) 1994-2002, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 */
/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * cfg_routemap_match.h
 *
 * Process route-map match subcommands.
 *
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * route_map_ionized.c- Route Maps support for IONized processes
 *
 * July 2001, Siva Yaragalla
 *
 * Route map subsystem for IOS style processes.
 *
 * Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_ionized.c
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * Generic tag list support.
 *
 * June 2011, Karthik Subramaniam
 */
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routetag_list.c
No license file was found, but licenses were detected in source scan.

/* $Id: exec_show_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:59 enkechen Exp $
 * $Source: /release/111/cvs/Xsys/ip/exec_show_ip_prefixlist.h,v $ 
 *------------------------------------------------------------------
 * exec_show_ip_prefixlist.h -- Show IP prefix lists
 * 
 * July 1997 Enke Chen
 * 
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log: exec_show_ip_prefixlist.h,v $
 * Revision 3.1.2.1 1997/12/17 21:36:59 enkechen
 * CSCdj61356: Prefix-list - facility for efficient route filtering
 * Branch: FIB_branch
 * 
 * Revision 3.1 1997/12/17 01:46:35 enkechen
 * Start with the new file.
 * 
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

/*
 * $Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/route_map.h,v $
 *------------------------------------------------------------------
 * route_map.h
 * 
 * Route map support data structures.
 * 
 * Copyright (c) 1986-2020 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log: route_map.h,v $
 * Revision 3.3.12.6 1996/05/04 01:22:42 wilber
* Branch: California_branch
*  
* Constrained Multicast Flooding
*  - Define MOSPF hello option bit.
*  
* Name Access List
*

* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*  
* Revision 3.3.12.4 1996/04/05 03:46:42 rchandra
* CSCdi53755: BGP: flap dampening settings not flexible enough
* Branch: California_branch
*  - add route-map support to set flap dampening parameters
*  
* Revision 3.3.12.3 1996/04/02 07:29:32 dkatz
* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
* Branch: California_branch
*  - always store canonical metrics scaled for IGRP, and make EIGRP do
*  its own scaling internally. Get the scaling right in all three
*  places.
*  
* Revision 3.3.12.2 1996/03/28 23:59:20 rchandra
* CSCdi52098: BGP: exact keyword not accepted by route-map in community
* match
* Branch: California_branch
*  - fix my silly bug in handling exact community matching
*  - limit the range of valid community to 0xFFFF0000
*  - fix a cosmetic bug in show ip community-list
*  
* Revision 3.3.12.1 1996/03/28 22:28:27 rchandra
* CSCdi52880: BGP: generate error message for unsupported route-map
* options
* Branch: California_branch
*  - generate error message when unsupported route-map option is used
*  - tread federation EBGP neighbors similar to internal neighbors in
*  best path selection
*  - fix the bug in bgp_compare_med, so that during MED comparison,
*  confederation information is skipped properly
*  - confederation EBGP paths should be inserted into the IP table with
*  internal distance
*  - do not consider common-AS neighbors as confederation neighbors
*  - during 'clear ip bgp dampening' avoid skipping paths
*  - undo the patch to the radix version walker
*  
* Revision 3.3 1996/02/17 01:23:27 myeung
* CSCdi49210: match tag clause does not work with static routes
* Revision 3.2 1995/11/17 17:37:17 hampton
  * Remove old entries from the RCS header logs.
*  
* Revision 3.1 1995/11/09 12:10:38 shaker
  * Bump version numbers from 2.x to 3.x.
*  
* Revision 2.4 1995/09/25 08:31:20 tli
  * CSCdi40960: ISP jumbo patch 2
*  
* Revision 2.3 1995/07/12 07:19:12 tli
  * CSCdi36426: Policy routing will not disable on an interface
    * - Policy routed packets were creating fastswitching cache entries.
    * That's not till _next_ release.
    * - Add counters to record packet and byte count on a per route map entry
      * basis.
    * - Marketing identified a catastrophic deficiency. Implemented "set ip
tos" and "set ip precedence" to cover this deficiency.
  *  
* Revision 2.2 1995/07/06 23:12:41 rchandra
  * CSCdi36759: BGP : Add conditional per neighbor default generation
    * - add 'neighbor <x.x.x.x> default-originate route-map <tag>^ command.
  *  
* Revision 2.1 1995/06/07 21:10:57 hampton
  * Bump version numbers from 1.x to 2.x.
*  
*------------------------------------------------------------------
* $Endlog$
*="/*

Found in path(s):
  * /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/route_map.h
No license file was found, but licenses were detected in source scan.

"/

*------------------------------------------------------------------
* ip_prefixlist_chain.c - Parse chains for IP Prefix Lists
*  
* August 2001, Siva Yaragalla
*  
* Copyright (c) 2001-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
  * /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_chain.c
/* $Id: cfg_router_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp $ */
/* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_distance.h,v $ */
/*----------------------------------------------------------------------*/
/* CFG_ROUTER_DISTANCE.H */
/* */
/* The bgp version must come before the weight version so that both NVGEN */
/* and normal processing happen correctly. */
/* */
/* All rights reserved. */
/*----------------------------------------------------------------------*/
/* $Log: cfg_router_distance.h,v $ */
/* Revision 3.2.60.1 1996/05/04 01:21:16 wilber */
/* Branch: California_branch */
/* */
/* Constrained Multicast Flooding */
/* - Define MOSPF hello option bit. */
/* */
/* Name Access List */
/* */
/* Revision 3.2 1995/11/17 17:32:05 hampton */
/* Remove old entries from the RCS header logs. */
/* */
/* Revision 3.1 1995/11/09 12:05:29 shaker */
/* Bump version numbers from 2.x to 3.x. */
/* */
/* Revision 2.1 1995/07/01 12:15:50 tli */
/* CSCdi36508: Rationalize parser file placement, part I */
/* Rationalize iprouting */
/* */
/* Revision 2.1 1995/06/07 22:12:30 hampton */
/* Bump version numbers from 1.x to 2.x. */
/* */
/*----------------------------------------------------------------------*/
/* $Endlog$ */
*/

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distance.h

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

/*
*/
/*----------------------------------------------------------------------*/
/* routemap_internal.h */
/* */
* Route map support data structures.
* To be included only by routemap code.
*
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routemap_internal.h
No license file was found, but licenses were detected in source scan.

/"------------------------------------------------------------------
* router_topology_parse.c - Router topology command definitions.
 *
* Sept 2004, Mercia Zheng
 *
* Copyright (c) 2004-2010, 2019-2020 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/router_topology_parse.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_neighbor.h,v 3.3.20.1 1996/08/12 16:03:45 widmer Exp $ 
 * $Source: /release/112/cvs/Xsys/iprouting/cfg_router_neighbor.h,v $ 
 *------------------------------------------------------------------
 * C F G _ R O U T E R _ N E I G H B O R . H 
 * 
 * All Rights Reserved 
 *------------------------------------------------------------------
 * $Log: cfg_router_neighbor.h,v $ 
 * Revision 3.3.20.1 1996/08/12 16:03:45 widmer 
 * Branch: California_branch 
 * Add Eolns and Nvgenns macro that default csb->which to 0 
 * Remove hidden keyword help strings 
 * 
 * Revision 3.3 1996/02/01 23:33:57 widmer 
 * Branch: California_branch 
 * Add Eolns and Nvgenns macro that default csb->which to 0 
 * Remove hidden keyword help strings 
 * 
 * Revision 3.2 1995/11/17 17:32:14 hampton 
 * Remove old entries from the RCS header logs. 
 * 
 * Revision 3.1 1995/11/09 12:05:42 shaker 

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* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:55 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:48 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_neighbor.h
No license file was found, but licenses were detected in source scan.

/ *
*------------------------------------------------------------------
* iprouting_debug.h -- Debugging declarations for IP routing
* *
* May 1993, John Bashinski
* *
* Copyright (c) 1993-2010 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/iprouting_debug.h
No license file was found, but licenses were detected in source scan.

/ *
*------------------------------------------------------------------
* protofltr.h
* *
* Routing protocol filter manager Public API definitions
* *
* Jan 2006, Mercia Zheng
* *
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/protofltr.h
No license file was found, but licenses were detected in source scan.

/*
 *exec_clear_routemap.h -- clear route-map counters
 *
 * Copyright (c) 1986-2008 by cisco Systems, Inc.
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmnn/src/exec_clear_routemap.h

/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $*/
/* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $*/
* Generic prefix list support.
* June 1997, Enke Chen
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
* Revision 3.1.2.2 1998/02/11 01:55:34 soma
* Merge FIB_L3 branch into FIB branch
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen
* CSCdj77191: Reduce several chunk size parameters to save memory
* Branch: FIB_L3_branch
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
* Revision 3.1 1997/12/17 01:46:32 enkechen
* Start with the new file.
*/

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Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cm/include/ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* iprouting_actions_registry.h
*
* Router address family actions registry.
*
* May 2002, Victor Kamensky
*
* All rights reserved.
 *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cm/include/router_af_actions_registry.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* iprouting_init_ionblob.c -- IP Routing Init code for blog in ION only
*
* October 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2017 by cisco Systems, Inc.
* All rights reserved.
 *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cm/src/iprouting_init_ionblob.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_redistribute.h,v $
*------------------------------------------------------------------
* CFG _ R O U T E R _ R E D I S T R I B U T E . H
*------------------------------------------------------------------

* Warning:
* If you modify this file, please also check cfg_router_topo_redistribute.h
* to see if the changes apply to config-router-topo mode as well.
*
* All Rights Reserved
*------------------------------------------------------------------
No license file was found, but licenses were detected in source scan.

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

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

No license file was found, but licenses were detected in source scan.
name:iprouting.iosproc
path:/sbin
feature:iprouting
level:100
envs:RLIMIT_NOFILE=65535

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting.startup
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * cfg_router_flash-threshold.h
 * *
 * January 1998, 2001 Dawn Li
 * *
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_flash-threshold.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * Exit from BGP Address Family mode.
 * *
 * Sept 1998, Bob Thomas
 * *
 * All rights reserved.
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*------------------------------------------------------------------
* No license file was found, but licenses were detected in source scan.
*------------------------------------------------------------------

* $Id$
* $Source$
*------------------------------------------------------------------
* iprib_api_svr.c -- IP Routing Information Base (RIB) API definitions
* August-2001, Fan Kong
* Copyright (c) 2001-2012, 2019 by cisco Systems, Inc.
*------------------------------------------------------------------
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprib_api_svr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id$
* $Source$
*------------------------------------------------------------------
* IP routing parse chains
* * May 1993, Robert Widmer
* * Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.
* * All rights reserved.
* *
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_chain.c
No license file was found, but licenses were detected in source scan.

/*
* ip_prefixlist_ionized.c - IP Prefix Lists support for ionized processes
* *
* August 2001, Siva Yaragalla
* *
* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.
* * All rights reserved.
* *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionized.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: rousource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $
*/
route_map.c -- Route map support routines.
* 23-January-1993
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
* $Log: route_map.c,v $
* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
  * CSCdi57006: route-map in configuration are stored/displayed in reverse
  * order
  * Branch: California_branch
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
  * Remove gratuitous casting. [CSCdi61655]
  * Branch: California_branch
* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra
  * CSCdi59547: Routemap: %SYS-4-REEXP: NULL string parameter error
  * Branch: California_branch
  * - do not pass null path to route_map_match_aspath
* Revision 3.4.10.8 1996/06/03 23:24:12 ahh
  * CSCdi59119: IP: NAT should support named access-lists
  * And extended access-lists and non-contiguous address pools.
  * Branch: California_branch
* Revision 3.4.10.7 1996/05/04 01:22:39 wilber
  * Branch: California_branch
* Constrained Multicast Flooding
  * - Define MOSPF hello option bit.
* Name Access List
* Revision 3.4.10.6 1996/04/16 19:02:21 rchandra
  * CSCdi54830: IP features commit
  * Branch: California_branch
* Revision 3.4.10.5 1996/04/05 03:46:40 rchandra
  * CSCdi53755: BGP: flap dampening settings not flexible enough
  * Branch: California_branch
  * - add route-map support to set flap dampening parameters
* Revision 3.4.10.4 1996/04/02 07:29:30 dkatz
  * CSCdi52277: Redistribution metric problems with IGRP/EIGRP
  * Branch: California_branch
* Always store canonical metrics scaled for IGRP, and make EIGRP do
* its own scaling internally. Get the scaling right in all three
* places.
*
* Revision 3.4.10.3 1996/03/28 23:59:18 rchandra
* CSCdi52098: BGP: exact keyword not accepted by route-map in community
* match
* Branch: California_branch
* - fix my silly bug in handling exact community matching
* - limit the range of valid community to 0xFFFF0000
* - fix a cosmetic bug in show ip community-list
*
* Revision 3.4.10.2 1996/03/28 22:28:25 rchandra
* CSCdi52880: BGP: generate error message for unsupported route-map
* options
* Branch: California_branch
* - generate error message when unsupported route-map option is used
* - thread confederation EBGP neighbors similar to internal neighbors in
*   best path selection
* - fix the bug in bgp_compare_med, so that during MED comparison,
*   confederation information is skipped properly
* - confederation EBGP paths should be inserted into the IP table with
*   internal distance
* - do not consider common-AS neighbors as confederation neighbors
* - during 'clear ip bgp dampening' avoid skipping paths
* - undo the patch to the radix version walker
*
* Revision 3.4.10.1 1996/03/18 20:29:32 gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California, and took the
* port ready changes with him.
*
* Revision 3.2.26.3 1996/03/16 06:58:25 gstovall
* Branch: DeadKingOnAThrone_branch
* Make the king aware of V111_1_3.
*
* Revision 3.2.26.2 1996/03/07 09:50:41 mdb
* Branch: DeadKingOnAThrone_branch
* cisco and ANSI/POSIX libraries.
*
* Revision 3.2.26.1 1996/02/20 01:04:27 dstine
* Branch: DeadKingOnAThrone_branch
* Sync from DeadKingOnAThrone_baseline_960122 to
*    DeadKingOnAThrone_baseline_960213
*
* Revision 3.4 1996/02/24 02:01:55 pst
* CSCdi49774: modularize regexp's for bgp (part 3)
*
* Revision 3.3 1996/02/01  06:06:17  hampton
  * Migrate files out of the parser directory.  [CSCdi47717]
  * Step 2: Change all files which reference the moved parser files to
  * point to their new locations.
  *
* Revision 3.2 1995/11/17  17:37:13  hampton
  * Remove old entries from the RCS header logs.
  *
* Revision 3.1 1995/11/09  12:10:35  shaker
  * Bump version numbers from 2.x to 3.x.
  *
* Revision 2.6 1995/09/25  08:31:19  tli
  * CSCdi40960:  ISP jumbo patch 2
  *
* Revision 2.5 1995/07/06  23:12:39  rchandra
  * CSCdi36759:  BGP : Add conditional per neighbor default generation
  * - add ‘neighbor <x.x.x.x> default-originate route-map <tag>’ command.
  *
* Revision 2.4 1995/06/23  14:26:05  widmer
  * CSCdi36318: multiple route-map commands are not accepted
  * Fix route-map command NV generation
  *
* Revision 2.3 1995/06/15  15:18:52  widmer
  * CSCdi35889: parser transition structures should be static
  *
* Revision 2.2 1995/06/08  08:59:19  tli
  * CSCdi35274: route-map test-1 crashes IOS
  * - If a route map does not set any routing information, it should be
  *   equivalent to not having policy routed the packet.
  * - "match length" clauses were having their flag stepped on because the
  *   flag update routine didn’t know about the clause.
  *
* Revision 2.1 1995/06/07  21:10:53  hampton
  * Bump version numbers from 1.x to 2.x.
  *
*------------------------------------------------------------------
* $Endlog$
*------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map.c
No license file was found, but licenses were detected in source scan.

/IP routemap test commands
*  
* May 2003, Tanya Shastri
*
Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 */

router_topology_chain.c - Parser chains of router topology sub mode
* for multi-topology routing support
* Sept 2004, Mercia Zheng
* 
* Copyright (c) 2004-2010, 2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log$
* $Endlog$
*------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/router_topology_chain.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_routemap_exit.h,v 3.2.60.1 1996/08/12 16:03:34 widmer Exp $ 
 * $Source: /release/112/cvs/Xsys/iprouting.cfg_routemap_exit.h,v $ 
 */

cfg_routemap_exit.h
*
* exit - exit from route-map configuration mode
*
* All Rights Reserved
*------------------------------------------------------------------
* $Log: cfg_routemap_exit.h,v $ 
* Revision 3.2.60.1 1996/08/12 16:03:34 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:31:42 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:03 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:44 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:09 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_exit.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_input-queue.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* IP routing show commands
* *
* May 1993, Robert Widmer
*
No license file was found, but licenses were detected in source scan.

/*------------------------------*/
* routemap_api_util.c -- Dynamic routemap API utility functions.
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2010, 2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_api_util.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h
No license file was found, but licenses were detected in source scan.

/*------------------------------*/
* iprouting_cmn.c
* This file has global definitions common to blob and iprouting processes.
*
* Copyright (c) 2002-2009, 2011, 2013 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------*/
/* iprouting_common.h - Basic types for IP routing (IPv4/IPv6) */
/* */
/* Contains: */
/* - address family enum, */
/* - tableid type and related macros */
/* - topoid type and related macros */
/* - private topoid definitions and APIs */
/* - generic non-routing ID definitions/APIs */
/* */
/* Warning: this file should not have any dependency on other header file */
/* except those where basic C types are defined. */
/* */
/* June 2003, Luc Revardel */
/* */
/* Copyright (c) 2003-2013, 2016, 2018, 2020 by cisco Systems, Inc. */
/* All rights reserved. */
/*------------------------------------------------------------------*/
/*

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

/*---------------------------------------------------------------*/
/* router_af_actions_registry.c */
/* */
/* Router address family actions registry. */
/* */
/* May 2002, Victor Kamensky */
/* */
/* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc. */
/* All rights reserved. */
/*------------------------------------------------------------------*/
/*

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

/*---------------------------------------------------------------*/
/* exec_debug_routemap.h -- Debugging for Route-map IPC */
* July 1998, Wilber Su
*
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemap.h
No license file was found, but licenses were detected in source scan.

/*  
*------------------------------------------------------------------
* iprouting_parser_linkpoints.c - iprouting parser linkpoint defs.
*  
* April, 2005  
*  
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*  
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser_linkpoints.c
No license file was found, but licenses were detected in source scan.

/*  
*------------------------------------------------------------------
* iprouting_parser_macros.h - Routing macros moved out of  
*   sys/parser/macros.h  
*  
* November, 2004  
*  
* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/iprouting_parser_macros.h
No license file was found, but licenses were detected in source scan.

/ *------------------------------------------------------------------
* route_map_globs.c
*/
* This file has the route map globals common to blob (for lc images)
* and routing process (for routing images).
* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmnp/src/route_map_globs.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_offset.h,v $
*------------------------------------------------------------------
*/

C F G _ R O U T E R _ O F F S E T . H
*
* All Rights Reserved
*------------------------------------------------------------------
*$Log: cfg_router_offset.h,v $
*Revision 3.3.20.4  1996/09/04  23:46:26  mikel
*CSCd65889:  offset-list doesnt work for EIGRP
*Branch: California_branch
*Re-enable offset-list command as well as adding offset-list out support,
*and fix offset-list to work with access-lists
*
*Revision 3.3.20.3  1996/08/12  16:03:48  widmer
*CSCd65725:  Create Eolns macro that defaults csb->which to 0
*Branch: California_branch
*Add Eolns and Nvgenns macro that default csb->which to 0
*Remove hidden keyword help strings
*
*Revision 3.3.20.2  1996/05/04  01:21:23  wilber
*Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
* *
* Name Access List
*
* Revision 3.3.20.1  1996/04/09  05:54:35  mikel
*CSCd49628:  EIGRP ignores outgoing offset-list
*Branch: California_branch
*disable offset-list command from eigrp router config
*
* Revision 3.3  1996/02/01  23:33:59  widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*Revision 3.2 1995/11/17 17:32:19 hampton
*Remove old entries from the RCS header logs.
*Revision 3.1 1995/11/09 12:05:53 shaker
*Bump version numbers from 2.x to 3.x.
*Revision 2.1 1995/07/01 12:15:58 tli
*CSCdi36508: Rationalize parser file placement, part I
*Rationalize iprouting
*Revision 2.1 1995/06/07 22:12:58 hampton
*Bump version numbers from 1.x to 2.x.
*------------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h

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

/*********************************************************************/
* route_map_http_ion.c
*
* March, 2003 Phil Winterfield
*
*Copyright (c) 2003-2004, 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c

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

/*********************************************************************/
* route_map_def.h - Route Map Tyep Definition
*
* Feb, 2006 Allen Hu
*
*Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * routing_context_registry.c
 *
 * September 2009, Derek Yeung
 *
 * Copyright (c) 2009 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

/* $Id: iprouting_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/iprouting_setup.c,v $
 *------------------------------------------------------------------
 * IP Routing setup commands
 *
 * May 1993, Robert Widmer
 *
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log: iprouting_setup.c,v $
 * Revision 3.4.4.1 1996/06/28 01:21:03 snyder
 * CSCdi61601: fix some char * that should have been char [] in iprouting
 * Branch: California_branch
 *
 * You get space back for the pointer
 * You get space back for each reference
 * You get bytes out of data space
 *
 * Revision 3.4 1996/03/09 22:56:04 widmer
 * CSCdi47890: HTTP server doesn't work
 * Add HTTP server
 *
* Revision 3.3 1995/11/28 03:58:38 widmer
* CSCdi44175: Add setup_printf to replace sprintf in setup code
*
* Revision 3.2 1995/11/17 17:34:53 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:42 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:55 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_setup.c

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

##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##
syntax: 1.0.0

# iprouting_cmn meta-source files
group: iprouting_cmn-generic
{
    enum:
        iprouting_cmn/include/enum/iprouting_api.enum

    reg:
        iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
        iprouting_cmn/include/reg/iprouting_registry.reg
        iprouting_cmn/include/reg/lfafr_registry.reg
        iprouting_cmn/include/reg/route_map_registry.reg
        iprouting_cmn/include/reg/router_af_actions_registry.reg
        iprouting_cmn/include/reg/router_topology_registry.reg
        iprouting_cmn/include/reg/routing_context_registry.reg
}

# end of group: iprouting_cmn-generic
# iprouting_cmn source files

group: iprouting_cmn
{
    includes:
        ../generic/routing/iprouting_cmn/include
        $(COMPONENT_ROOT)/routing/iprouting_cmn/include
        $(COMPONENT_ROOT)/routing/iprouting_cmn/internal_inc
        $(COMPONENT_ROOT)/routing/iprouting_cmn/src
        $(COMPONENT_ROOT)/routing
        $(COMPONENT_ROOT)/posix/include
        $(IOS_SYSROOT)/ion/include
        $(IOS_SYSROOT)/crypto/ca
        $(IOS_SYSROOT)/crypto/ca/certcinc
        $(IOS_SYSROOT)/crypto/ca/bsafeinc
        $(IOS_SYSROOT)/crypto/ca/provider/include
    defines: CRYPTOcv5 CERTCv5
    cflags: -Wno-parentheses -Wno-uninitialized

    sub: ion_iprouting_cmd_registry
    {
        context: os==ion
        contains:
            iprouting_cmn/src/ion_iprouting_cmd_registry.c
    }

    sub: iprouting_blob
    {
        contains:
            iprouting_cmn/src/ip_routing.c
            iprouting_cmn/src/ip_stats.c
            iprouting_cmn/src/iprouting_actions.c
            iprouting_cmn/src/iprouting_chain.c
            iprouting_cmn/src/iprouting_debug.c
            iprouting_cmn/src/iprouting_init_blob.c
            iprouting_cmn/src/iprouting_setup.c
            iprouting_cmn/src/protoltr_debug.c
            iprouting_cmn/src/route3_blob.c
            iprouting_cmn/src/routemap_debug.c
            iprouting_cmn/src/router_af_chain.c
            iprouting_cmn/src/router_topology_chain.c
            iprouting_cmn/src/routing_context_chain.c
    }

    sub: iprouting_cmn
    {
        contains:
            iprouting_cmn/include/msg_iproute.rc
            iprouting_cmn/src/iprouting_cmn.c
    }

    sub: iprouting_common_blob

{ contains:
    iprouting_cmn/src/ip_prefixlist_chain.c
    iprouting_cmn/src/policylist_blob.c
    iprouting_cmn/src/route_map_blob.c
    iprouting_cmn/src/routemap_track.c
 }
sub: iprouting_common_ionblob
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionblob.c
        iprouting_cmn/src/route_map_ionblob.c
 }
sub: iprouting_common_ionized
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionized.c
        iprouting_cmn/src/policylist_ionized.c
        iprouting_cmn/src/route_map_ionized.c
 }
sub: iprouting_common_misc
{
    contains:
        iprouting_cmn/src/ip_prefixlist.c
        iprouting_cmn/src/msg_routemap.c
        iprouting_cmn/src/policylist.c
        iprouting_cmn/src/route_map.c
        iprouting_cmn/src/routetag_list.c
 }
sub: iprouting_common_nbcmn
{
    contains:
        iprouting_cmn/src/route_map_nbcmn.c
 }
sub: iprouting_common_nonblob
{
    contains:
        iprouting_cmn/src/ip_prefixlist_ios.c
        iprouting_cmn/src/policylist_ios.c
 }
sub: iprouting_init_ios
{
    contains:
        iprouting_cmn/src/iprouting_init_ios.c
 }
sub: iprouting_ionblob
{  
  context: os=iow  
  contains:  
    iprouting_cmn/src/iprouting_init_blob.c  
    iprouting_cmn/src/iprouting_parse_blob.c  
    iprouting_cmn/src/router_af_parse_blob.c  
}  
sub: iprouting_blob  
{  
  context: os=iow  
  contains:  
    iprouting_cmn/src/iprouting_init_blob.c  
    iprouting_cmn/src/router_af_parse_blob.c  
}  
sub: iprouting_nonblob  
{  
  contains:  
    iprouting_cmn/src/iprib_api.svr.c  
    iprouting_cmn/src/iprouting_init.c  
    iprouting_cmn/src/iprouting_stats.c  
    iprouting_cmn/src/protofltr.c  
    iprouting_cmn/src/route1.c  
    iprouting_cmn/src/route2.c  
    iprouting_cmn/src/route3.c  
}  
sub: iprouting_misc  
{  
  contains:  
    iprouting_cmn/src/routemap_api.c  
    iprouting_cmn/src/routemap_api_util.c  
    iprouting_cmn/src/routemap_internal.c  
}  
sub: iprouting_parser  
{  
  contains:  
    iprouting_cmn/src/iprouting_parser_linkpoints.c  
}  
sub: iprouting_registry  
{  
  contains:  
    iprouting_cmn/src/iprouting_registry.c  
}  
sub: ipv4_subsys  
{  
  contains:  
    iprouting_cmn/src/ipv4_subsys.c  
}
sub: lfafrr_registry
{
  contains:
    iprouting_cmn/src/lfafrr_registry.c
}
sub: route_map_globs
{
  contains:
    iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
  contains:
    iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{
  contains:
    iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
  contains:
    iprouting_cmn/src/routemap_ios.c
    iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain
{
  contains:
    iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_le_ipc
{
  context: os==ios
  contains:
    iprouting_cmn/src/route_map_globs.c
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/routemap_internal.c
    iprouting_cmn/src/routemap_ios_chain.c
iprouting_cmn/src/routetag_list.c
}
sub: router_af_actions_registry
{
  contains:
    iprouting_cmn/src/router_af_actions_registry.c
}
sub: router_topology_registry
{
  contains:
    iprouting_cmn/src/router_topology_registry.c
}
sub: routing_context
{
  contains:
    iprouting_cmn/src/routing_context.c
}
sub: routing_context_registry
{
  contains:
    iprouting_cmn/src/routing_context_registry.c
}
# end of group: iprouting_cmn

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/content.lst
No license file was found, but licenses were detected in source scan.

/
*------------------------------------------------------------------
* route_map_ionblob.c -- Route Maps support for ION Blob
* October 2001, Siva Yaragalla
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c
No license file was found, but licenses were detected in source scan.

/
*------------------------------------------------------------------
* iprouting_parser_linkpoints.h - iprouting parser linkpoint decls.
*
April, 2005

Copyright (c) 2005, 2007-2008, 2015 by Cisco Systems, Inc.
All rights reserved.

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/iprouting_parser_linkpoints.h
No license file was found, but licenses were detected in source scan.

*/

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/topo_aware.h
No license file was found, but licenses were detected in source scan.

*/

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/route_map_registry.h
No license file was found, but licenses were detected in source scan.

*/

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

iprouting_blob_undef.c -- undefined symbols from blob when
routing subsytems are pulled out
* October, 2002 Phil Winterfield
*
* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*
* $Id$
* $Source$
*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
* IOS prefix list support.
*
* March 2005, Sarath Chandran
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
* IOS prefix list support.
*
* March 2005, Sarath Chandran
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * CFG_ROUTER_TABLE-MAP.H
 *
 * All Rights Reserved
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_table-map.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * IP routing clear commands
 *
 * May 1993, Robert Widmer
 *
 * All rights reserved.
 *
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_routing.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * exec_show_ip_extcommunity-list.h
 *
 * April 2000, Rex Fernando
 *
 * Copyright (c) 2000, 2002-2003, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
* If its not a per-user distribute-list, we have to configure the
  * route-map for pflist_def too - its used to restore default when
  * a per-user distribute-list is un-configured as well as for
  * nvgen purposes. All this mess, only for the interface specific
  * version.
  */
*/
* This command is only valid for ipv4 and nsap AFs in BGP.

* However it is accepted for other BGP AFs
* for backwards compatibility. However, no action
* is taken for these AFs and it is not nvgen'ed
* either. Check out cfg_router_default.h for
* more details.
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route3.c
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * 22-May-2016, Les Ginsberg
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_maximum-sec-paths.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * lfafrr_registry.c
 * July 2010, Ahmed Bashandy
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/Lfafrr_registry.c
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 */
* routemap_debug.c -- Routemap debugging support
*
* July 1998, Wilber Su
*
* All rights reserved.
*-------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_debug.c
No license file was found, but licenses were detected in source scan.

/*
*-------------------------------------------------------------
* exec_show_routetag_list.h
*
* All rights reserved.
* 
* Command parsing chain for "show route-tag".
*-------------------------------------------------------------
*
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_routetag_list.h
No license file was found, but licenses were detected in source scan.

/ * $Id$
* $Source$
*-------------------------------------------------------------
* Registry for IP FRR infrastructure
*
* July 6, 2010 Ahmed Bashandy
*
* All rights reserved.
*-------------------------------------------------------------
* $Log$
*-------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/lfafrr_registry.h
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
/* ip_stats.c - IP for topology aware stats*/
/* April 2006, Jonsky Hsu*/
/* Copyright (c) 2006-2010 by cisco Systems, Inc.*/
/* All rights reserved.*/
/*----------------------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_stats.c
No license file was found, but licenses were detected in source scan.

/* $Id$*/
/* $Source$*/
/*-----------------------------------------------*/
/* protofltr.c -- Routing protocol filter manager support routines*/
/* Jan 2006, Mercia Zheng*/
/* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.*/
/* All rights reserved.*/
/*------------------------------------------------------------------*/
/* $Log$*/
/*------------------------------------------------------------------*/
/* $Endlog$*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/protofltr.c
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
/* router_topology_registry.h*/
/* Router topology registry.*/
/* Sept 2004, Mercia Zheng*/
/* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.*/
/* All rights reserved.*/
/*------------------------------------------------------------------*/
/*

*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/router_topology_registry.h
No license file was found, but licenses were detected in source scan.

/* $Id: ip_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp $ */
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.c,v $
*------------------------------------------------------------------
* ip_routing.c -- Generic IP routing functions
* 
* Mar 1995 Tony Li
* 
* All rights reserved.
*------------------------------------------------------------------
* $Log: ip_routing.c,v $
* Revision 3.2  1995/11/17  17:34:11  hampton
* Remove old entries from the RCS header logs.
* 
* Revision 3.1  1995/11/09  12:08:05  shaker
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1  1995/06/07  21:07:03  hampton
* Bump version numbers from 1.x to 2.x.
* 
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_routing.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* router_topology_parse.h
* 
* Router topology parser functions declarations.
* 
* Sept 2004, Mercia Zheng
* 
* Copyright (c) 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
* Revision 3.2.60.1 1996/08/12 16:03:46 widmer
* CSCd65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2  1995/11/17 17:32:18 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09 12:05:49 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/09/25 08:30:52 tli
* CSCdi40960: ISP jumbo patch 2
*
* Revision 2.1  1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1  1995/06/07 22:12:56 hampton
* Bump version numbers from 1.x to 2.x.
*
*---------------------------------------------------------------
* $Endlog$
* /

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_network.h
No license file was found, but licenses were detected in source scan.

/* $Id: iprouting_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage $ */
* $Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting_init.c,v $ *
* iprouting_init.c -- initialize IP Routing Protocol support.
* *
* 20-August-1985, Kirk Lougheed
* *
* Copyright (c) 1985-2012, 2016, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
* $Log: iprouting_init.c,v $ *
* Revision 1.1 2003/06/13 18:30:09 dsavage
* Initial revision
*
*---------------------------------------------------------------
* $Endlog$
*/
Found in path(s):
  * /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_init.c

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

/*
 * PAR S E R _ D E F S _ R O U T E R . H
 *
 * $Id: parser_defs_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/parser_defs_router.h,v $
 *
 * Copyright (c) 1985-2020 by cisco Systems, Inc.
 * All rights reserved.
 *
 *------------------------------------------------------------------
 *
 * $Log: parser_defs_router.h,v $
 * Revision 3.1.40.2 1996/07/30 06:56:06 rchandra
 * CSCdi64489: BGP: private-AS number cannot be removed from AS-path
 * Branch: California_branch
 * - add 'neighbor x.x.x.x remove-private-AS' command.
 * - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration' command (CSCdi64487)
 *
 * Revision 3.1.40.1 1996/04/16 19:02:10 rchandra
 * CSCdi54830: IP features commit
 * Branch: California_branch
 *
 * Revision 3.1 1996/02/01 04:58:48 hampton
 * Migrate files out of the parser directory. [CSCdi47717]
 * Step 1: Create copies of the files to be moved in their new location.
 *
 * Revision 3.2 1995/11/17 18:52:17 hampton
 * Remove old entries from the RCS header logs.
 *
 * Revision 3.1 1995/11/09 12:56:05 shaker
 * Bump version numbers from 2.x to 3.x.
 *
 * Revision 2.4 1995/08/28 21:14:47 rchandra
 * CSCdi39436: BGP: Allow conditional unsuppression of suppressed routes
 * - add 'neighbor x.x.x.x unsuppress-map <map>' command
 *
 * Revision 2.3 1995/07/06 23:11:21 rchandra
 * CSCdi36759: BGP: Add conditional per neighbor default generation
 * - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
 *
 * Revision 2.2 1995/06/30 20:24:40 rchandra
 * CSCdi36620: BGP requires IBGP neighbors to be fully meshed
 */
* Revision 2.1 1995/06/07 22:31:08 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h

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

/** $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/exec_show_route-map.h,v $
 *------------------------------------------------------------------
 * exec_show_route-map.h
 * *
 * All rights reserved.
 *
 * Command parsing chain for "show route-map".
 *------------------------------------------------------------------
 * $Log: exec_show_route-map.h,v $
 * Revision 3.2.60.1 1996/08/12 16:04:13 widmer
 * CSCdi65725: Create Eolns macro that defaults csb->which to 0
 * Branch: California_branch
 * Add Eolns and Nvgenns macro that default csb->which to 0
 * Remove hidden keyword help strings
 *
 * Revision 3.2 1995/11/17 17:33:31 hampton
 * Remove old entries from the RCS header logs.
 *
 * Revision 3.1 1995/11/09 12:07:29 shaker
 * Bump version numbers from 2.x to 3.x.
 *
 * Revision 2.1 1995/07/01 12:16:22 tli
 * CSCdi36508: Rationalize parser file placement, part I
 * Rationalize iprouting
 *
 * Revision 2.1 1995/06/07 22:25:36 hampton
 * Bump version numbers from 1.x to 2.x.
 *
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/exec_show_route-map.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*---------------------------------------------
* cfg_route_default.h
* 
* September 2016, Yingzhen Qu
* 
* Copyright (c) 2016 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------
* $Log$
*---------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_route_default.h

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

/*
*---------------------------------------------
* routemap_track.c -- Route map support for tracking
* Functions which run on RP (not VIP).
* 
* March 2003  Shyan Wignarajah
* 
* Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_track.c

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

/****************************************************************************
* routing_context.h - Routing Context library API
* 
* March 2009, Derek Yeung
* 
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------
*/

Found in path(s):
* July 2001, Siva Yaragalla
* 
* Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_registry.c
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* iprouting_init_blob.c -- Partner file (in blob) for iprouting_init.c
* 
* 27-August-2001, Fan Kong
* 
* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $ 
* $Source: /swtal/cherf.111/ios/sys/iprouting/cfg_routemap_match_policy.h,v $ 
*------------------------------------------------------------------
* cfg_routemap_match_policy.h -- Route map match clauses for policy
* routing.
* 
* Mar 1995 Tony Li
* 
* All rights reserved.
*------------------------------------------------------------------
* $Log: cfg_routemap_match_policy.h,v $ 
* Revision 3.3 1995/11/28 19:50:34 widmer
* CSCDi44251: Replace Ifelse(csb->in_help)/Eval with Func
* 
* Revision 3.2 1995/11/17 17:31:48 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:10 shaker
  * Bump version numbers from 2.x to 3.x.
  *
* Revision 2.3 1995/06/21 18:16:00 widmer
  * CSCdi36227: Fix parse chain alternates
  *
* Revision 2.2 1995/06/15 15:18:44 widmer
  * CSCdi35889: parser transition structures should be static
  *
* Revision 2.1 1995/06/07 21:05:32 hampton
  * Bump version numbers from 1.x to 2.x.
  *
*--------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/cfg_routemap_match_policy.h
No license file was found, but licenses were detected in source scan.

!--------------------------------------------------------------
! iproutingcmn_router_cmd.sesut - IPv4 Routing Common Router
! Commands Unit Test Routines
!
! December 2007, Chi Iong Ansjory
!
! Copyright (c) 2007 by cisco Systems, Inc.
! All rights reserved.
!--------------------------------------------------------------
! Sample unit test description file.
! This file is used for generation of unit test module by SESUT.
! See http://wwwin-ses.cisco.com/unittest/sesut_ios.html for
! information about SESUT.
!
! Include a description of your test here.
!
! This is made up of many sections. Each section header starts with % in
! first column. It is followed by the section identifier.
! Lines that have ‘!’ in the first column are considered comments.
! Blank lines are ignored.
!
! You can report success/failure of your test by calling the following
! functions.
! Call sesut_<file prefix>_testpass to indicate test success.
! void sesut_<file prefix>_testpass(void);
! Call sesut_<file prefix>_testfail to indicate test failure.
! void sesut_<file prefix>_testfail(const char *fmt, ... );
% Cflow
! Enter the files/subsystems in the unit under test.
! These files will be instrumented for Cflow and MIF (if MIF is
! available in your view). GDB flag -g is used during compilation.
cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
! This list is ignored if ses_iouut is used. ses_iouut instruments all files
! in UUT (defined by -old and -new options).

% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified
! then a default MIF configuration is used.
!../os/free.c
!../os/buffers.c
!../os/chunk.c
!------------------
!malloc
!malloc_aligned
!malloc_fast
!malloc_pcimem
!malloc_named
!chunk_malloc
!getbuffer
!pool_getbuffer

% API
! Include DTD configuration.
! Not all features of DTD are available with SESUT yet.
! List headers/text that contain prototypes for the functions to be tested
! for robustness followed by a line consisting of '-'s followed by
! the list of functions to be tested for robustness.
! It is assumed that a .h file that includes all the text listed above
! the line consisting of '-'s is self-compiling in the same context as
! the one used to compile the .sesut file and has the definitions of
! all the objects whose pointers are referenced.
!master.h
!../testtools/testtools.h
!../testtools/testtools_private.h
!<stdio.h>
!void mynewapi(int,int);
!------------------------------------------------------
mif_enable
%!mif_disable
%!mif_clear
%!mif_lock
%!mnewapi

% env
%! Use this section to list object modules that are not
%! part of the standard build but are used by the tests defined in this
%! file. The text following "link:" is inserted into the final link step.
%!link:  xyz.o abc.o

%! Use this section to add any special 'CFLAGS' needed to compile sesut
%! generated test file
%!cflags: -I../http/http_core/include
%!cflags: -I../http/http_core/server
%!cflags: -I../http/http_core/config -I../http/http_core/lib
%!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE

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

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

%! You can specify a initializer/finalizer function to be executed
%! at the time of test initialization/removal.
%! Initializer is executed once during the lifetime of the current instance of
%! the test. If the test is part of the image then the initializer is executed
%! during subsystem initialization. If the test is a DLST(dynamically loaded)
%! then the initializer is executed just after the dynamic load.
%! The finalizer is executed when the test is removed (happens when the test is
%! being replaced).
! Note that the subsystems in the DLST are not initialized. You must list the
! subsystem init functions in the initializer function. Subsystem header is
! ignored for DLST’s. You will not see the subsystems for DLST’s listed in
! "show subsys" output.
! Use initializer to perform tasks like registry addition, memory allocation etc.
! Similarly use the finalizer to free these resources. This is an important
! consideration. Treat them like constructor/destructor for the DLST.

! The prototypes of these functions are expected to be:
!     void <initializer>(void);
!     void <finalizer>  (void);
! Define these functions in the ‘model prolog’ section. Note that these
! are optional. You can have one or both or none.
!initializer:my_init
!finalizer:my_finit

% model prolog iou
! This code will be copied unchanged to the start of the generated .c file
! Include definitions, declarations, include statements that
! are used in the model
! You can include stubs for the functions that are not ready yet but are
! invoked.
! If you choose to have pretest and posttest functions include them here.
!
! "model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are
! ! creating alters global state then use "dt" keyword. This informs
! ! automation framework that device should be reloaded prior to
! ! running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.
! % model prolog dt

#include IOS_INC(testtools/sesutlib_ios.h)
#include <routing/iprouting_cmn/include/ip_stats.h>
#include <routing/iprouting_cmn/include/iprouting_debug.h>
#include <routing/iprouting_cmn/include/router_af_actions_registry.h>

boolean sesrc;

% model digraph
! Describe the model. You have structured your test as a
! directed graph. Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! That is "vdag". This would generate testcases representing various
! acyclic paths leading from the start node. These tests cover all nodes.
! This does not guarantee that all the edges are covered.
If your test model is a tree (or hierarchical) or a DAG (Directed Acyclic Graph) then you should use this keyword.

```plaintext
% model digraph vdag
```

There are three keywords. They are:

1. `start node <nodeIdentifier>` - Specify the start node in the model.
2. `node <nodeIdentifier>`: - Beginning of a node description.
   - Include descriptions for all edges starting at this node.
   - If there is code to be executed upon entry to this node enter that immediately following this line but before entering any edge description.
3. `-><nodeIdentifier>`: - Beginning of an edge description. This describes an edge from the node to `&lt;n`.

Choose `nodeIdentifier` to be descriptive. Examples: AVLTreeInsert, DBSearch, DetachLine

These identifiers are used during runtime to present execution times and other data.

You can specify parameters for your unit test as follows:

```plaintext
parameters:(uint interface, char* hostname="abc", uint subInterface=1)
```

This should come before the line specifying the start node.

The parameters can be used in the code for nodes/edges. The values for parameters are received via CLI or as a result of direct invocation of the generated function. Parameters can be of type `uint` or `char*`. If values for parameters are provided on CLI defaults are used.

You should provide default values. If default values are not specified then the tool would assign default values. If the type is `uint` the default value is 0. Else (type `char*`) the default value is "".

During automation the default values are used. Use descriptive names for parameters.

```plaintext
start node StartNode
```

You can place initialization code that needs to be executed prior to entering the start node here.

```plaintext
node StartNode:
```

```

6 APIs from ip_stats.h/ip_registry.reg
```

1. `DEFINE show_ip_interface_with_topo`

```plaintext
(void) sesut_execcommand(FALSE, "show ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: show_ip_interface_with_topo -----\n");
```

2. `DEFINE clear_ip_interface_with_topo`

```plaintext
(void) sesut_execcommand(FALSE, "clear ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo -----\n");
```

3. `DEFINE show_ip_traffic_with_topo`

```plaintext
(void) sesut_execcommand(FALSE, "show ip traffic topology base");
```
printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo -----\n");

! 4. DEFINE clear_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "clear ip traffic topology base");
printf("\n----- SESUT Test: clear_ip_traffic_with_topo -----\n");

! 5. DEFINE show_ip_interface_stats

(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: show_ip_interface_stats -----\n");

! 6. DEFINE clear_ip_interface_stats

(void) sesut_execcommand(FALSE, "clear ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_stats -----\n");

! ===== 2 APIs from iprouting_debug.h =====

! 1. void
!  iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);

!iprouting_debug_arr_ios_set_csb(NULL);
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----\n");

! 2. void
!  iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);

!iprouting_ios_call_debug_cmd(NULL);
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----\n");

! ===== 1 API from router_af_actions_registry.reg =====

! 1. DEFINE address_family_action_named_router REMOTE 3
sesrc = reg_invoke_address_family_action_named_router(NULL);
printf("\n----- SESUT Test Reg: address_family_action_named_router -----\n");

Found in path(s):
* /opt/cola/permissions/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut
No license file was found, but licenses were detected in source scan.

/* $Id: iprouting_actions.h,v 3.2 1995/11/17 17:34:39 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/iprouting_actions.h,v $
*------------------------------------------------------------------
* IP routing specific parsing functions.
*
* Revision 2.3 1995/06/21 18:16:03 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:42 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_set_policy.h
No license file was found, but licenses were detected in source scan.

/ * $Id$
* $Source$
*------------------------------------------------------------------
* policylist.c - Routines to handle policy-list commands
*
* Apr. 2000, Rex Fernando
*
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/policylist.c
No license file was found, but licenses were detected in source scan.

#
#---------------------------------------------------------------
# iprouting_api.enum - IP Routing public API enum definitions
#
# August 2009, Prashant Srinivas
#
# Copyright (c) 2009-2010 by cisco Systems, Inc.
# All rights reserved.
#---------------------------------------------------------------
#
BEGIN IPROUTING_API

#
# Enumeration of the possible reasons for disabling routing on an interface
#
# Note, string length of the LONG description, should be <= 16 chars,
#       and contain nothing but alphanumerical characters and _
#
ENUM routing_disable_flag_t

ITEM ROUTING_DISABLE_FLAG_INT_IF
LONG "Internal_IF"
END ITEM

END ENUM

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/enum/iprouting_api.enum
No license file was found, but licenses were detected in source scan.

/*
   *protofltr_debug.c - Debug functions for protocol filter manager
   *
   * Mercia Zheng, Jan 2006
   *
   * Copyright (c) 2006-2008 by cisco Systems, Inc.
   * All rights reserved.
   *-------------------------------------------------------------
   */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/cfg_router.h,v $
 *-------------------------------------------------------------
 * CFG_ROUTER.H
 *
 * Enter router subcommand mode
 *
 * All rights reserved.
 *-------------------------------------------------------------
 * $Log: cfg_router.h,v $
 * Revision 3.2.60.2 1996/08/12 16:03:38 widmer
 * CSCdi65725: Create Eolns macro that defaults csb->which to 0
 * Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2.60.1  1996/04/15  21:17:43  bcole
* CSCdi54649:  IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2  1995/11/17  17:31:56  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09  12:05:20  shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1  1995/07/01  12:15:46  tli
* CSCdi36508:  Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1  1995/06/07  22:12:17  hampton
* Bump version numbers from 1.x to 2.x.
*
*---------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router.h
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* cfg_router_topology_mode.h - router topology configuration sub mode
*commands.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_mode.h
No license file was found, but licenses were detected in source scan.

# All rights reserved.

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/router_topology_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/route_map_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/routing_context_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/.signature/makefile

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

/* $Id: exec_debug_ip_routing.h,v 3.3.20.1 1996/06/27 04:40:57 mikel Exp $ */
/* $Source: /release/112/cvs/Xsys/iprouting/exec_debug_ip_routing.h,v $ */

* IP routing debug commands

* May 1993, Robert Widmer

* Copyright (c) 1993-2003, 2005-2009, 2019 by cisco Systems, Inc.
* All rights reserved.

* $Log: exec_debug_ip_routing.h,v $ *
  Revision 3.3.20.1 1996/06/27 04:40:57 mikel
  CSCdi37749: <debug ip eigrp> help wrong
  Branch: California_branch
  clean up ip-eigrp AS debugging
  *
  Revision 3.3 1996/02/01 23:34:07 widmer
  CSCdi45325: Change Keyword/Set to use Keyword_Id macro
  *
  Revision 3.2 1995/11/17 17:33:17 hampton
  * Remove old entries from the RCS header logs.
  *
  Revision 3.1 1995/11/09 12:07:09 shaker
  * Bump version numbers from 2.x to 3.x.
  *
  Revision 2.2 1995/11/08 21:06:22 shaker
  * Merge Arkansas_branch into 11.1 mainline.
  *
  Revision 2.1 1995/07/01 12:16:15 tli
  * CSCdi36508: Rationalize parser file placement, part I
  * Rationalize iprouting

Open Source Used In IOSXE Releases 17.7.1-RMs 3036
* Revision 2.1 1995/06/07 22:18:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_debug_ip_routing.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * iprouting_init_ionized.c - ION specific IP Routing Protocol support.
 * *
 * September 2001, Chandra Appanna
 * *
 * Copyright (c) 2001-2012 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionized.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * iprouting_debug.c -- Debugging routines for IP routing
 * *
 * May 1993, John Bashinski
 * *
 * Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_debug.c
No license file was found, but licenses were detected in source scan.

/*
 *--------------------------------------------------------------------
 * cfg_router_topology.h - router topology configuration mode command
 * *
 * Sept 2004, Mercia Zheng
 * *
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology.h

# iproutingcmn_router_cmd.run-doxygen -- Run-doxygen Configuration File for
#               IP Routing Common Router Commands
#
# December 2007, Chi Iong Ansjory
#
# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.
# All rights reserved.
#----------------------------------------------------------------------

#----------------------------------------------------------------------

# RUN-DOXYGEN CONFIG FILE
#
# The variables defined in this file are used by the run-doxygen script to
# execute doxygen and generate API documentation.
# This file will be sourced by a bourne shell script (/bin/sh)
# and so must follow the bourne shell script syntax
#
# This default configuration file is setup to work for the XOS project.
# If you want to reuse it, you must customize the properties below in order to
# make it work for your project.
#
# For more help contact doxygen-trolls@cisco.com
#----------------------------------------------------------------------

# The PROJECT_NAME variable is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.
PROJECT_NAME=IPROUTINGCMN_ROUTER_CMD

# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER=0.1.0.2

# The latest version of doxygen can be picked on the shared storage
# of the XOS/Component Framework team
# This executable can only run on linux 2.6 !!!!
#DOXYGEN=/auto/ios_comp/tools/doxygen-1.5.4/bin/doxygen
# Change this sanity check when doxygen will be supported for other hosts
#host=`uname -s`
#host_version=`uname -r`
#if [ $host != "Linux" ]; then
#  echo "Error: this wrapper can only be executed from Linux"
#  exit
#elif [ $host_version \< "2.6" ]; then
#  echo "Error: this wrapper requires Linux 2.6 or higher"
#  exit
#else
#
#  # The location of the latex suite, this is needed only if the PDF
#  # generation option is used (-f)
#  # This binary is also only available on linux 2.6
#  #LATEX_PATH=/auto/ios_comp/tools/texbin/i686-pc-linux-gnu
#  #LATEX_PATH=/usr/bin
#
#  #---------------------------------------------------------------
#
#  # Use this variable to specify one or more wildcard pattern (like *.cpp
#  # and *.h) to filter out the source-files in the directories.
FILE_PATTERNS="ip_stats.h iprouting_debug.h router_af_actions_registry.regh"

# Exclude all internal defines (defines used to guard against multiple
# inclusions of the same header file)
EXCLUDE_SYMBOLS="__*_H__ reg_add* reg_del* service_* reg_used* \
  _reg_add* reg_inv* reg_svr* _registry_* registry* REG_ELOG *GEN_ID \
  *DEFINED *_argt *_res \n  bgp* ospf* debug* route_debug* igrp* ipcache* ipproc* ip_mobile* netred* \
iprouting_acl DEBUG_ROUTING PROT MISCELLANEOUS VARS \
DEBUG_ROUTING* ALTP_BGF* __DEBUG_FLAGS* \niprouting_debug_init iprouting_set_debug_array iprouting6_debug_list_command \
iprouting_debug_list_command iprouting_nsap_debug_list_command \
iprouting_debug_acl_notify \nreg_invoke_address_family_action_get_entries \"
# When all symbols in a project start with a common prefix, by default all symbols will be put under the same header in the alphabetical index. The IGNORE_PREFIX tag can be used to specify one or more prefixes that should be ignored while generating the index headers. This will allow to spread the symbol index more evenly.

IGNORE_PREFIX="xos_ XOS_ "

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in documentation are documented, even if no documentation was available. 
# Private class members and static file members will be hidden unless the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL=YES

# If the EXTRACT_STATIC tag is set to YES all static members of a file will be included in the documentation.

EXTRACT_STATIC=YES

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all undocumented members of documented classes, files or namespaces. If set to NO (the default) these members will be included in the various overviews, but no documentation section is generated. This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS=NO

# VARIABLES RELATED TO DOXYGEN OUTPUT

# This is the root of the destination folder (local variable)
# Note that the archive area and the workspace area do not have to share the same destination root.
DST_BASE=/auto/ios_comp/iprouting_cmn

# This is the URL through which the DST_BASE folder can be accessed from the intranet. This URL depends on the location of the storage.
# Contact IT to find out the correct URL.
# (Local variable)
URL_DST_BASE=http://sjc-filer29a-web/projects/ios_comp/iprouting_cmn

# ---- WORSPACE AREA
# Relative path (to DST_BASE) - used by OUTPUT_WORKSPACE (local variable)
WORKSPACE_FOLDER=api-docs
# This is the full pathame of the root under which all normal output folders will be located
OUTPUT_WORKSPACE=${DST_BASE}/${WORKSPACE_FOLDER}

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_WORKSPACE=${URL_DST_BASE}/${WORKSPACE_FOLDER}

# ---- ARCHIVE AREA
# Relative path (to DST_BASE) - used by OUTPUT_ARCHIVE (local variable)
ARCHIVE_FOLDER=archive/xoslib

# This is the full pathame of the root under which all archive output folders will be located
OUTPUT_ARCHIVE=${DST_BASE}/${ARCHIVE_FOLDER}

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_ARCHIVE=${URL_DST_BASE}/${ARCHIVE_FOLDER}

#-----------------------------------------------
# VARIABLES RELATED TO DOXYGEN INPUT
#-----------------------------------------------

# This is the root of the API source code (local variable)
SRC_BASE=/vob/cisco.comp/routing/iprouting_cmn

# This is the location of all the API public header files (or directories)
# In XOS all public header files are located in one directory
API_PUBLIC="$SRC_BASE/include $SRC_BASE/include/reg"

# This is the location of all the API source code, used with option -all only
# if you want to generate doxygen documentation for the source code
# (only useful for internal code review)
# Do not put the content of API_PUBLIC as it is added automatically
API_ALL="$SRC_BASE/shared $SRC_BASE/ios $SRC_BASE/fox $SRC_BASE/linux"

# The EXAMPLE_PATH tag can be used to specify one or more files or
# directories that contain example code fragments that are included (see
# the @example command).
EXAMPLE_PATH=${SRC_BASE}/test/src

# The IMAGE_PATH tag can be used to specify one or more
# directories that contain image that are included in the documentation (see
# the @image command).
# This is only used/relevant if you have images in your API documentation.
IMAGE_PATH=${DST_BASE}/api-docs-images
* exec_routing_context.h
* 
* This file defines the routing-context command syntax.
* 
* March 2009, Derek Yeung
* 
* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.
* All rights reserved.
* ---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_routing_context.h

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

/* $Id$
 *
* $Source$
* ---------------------------------------------------------------
* iprouting_init_ios.c -- IP Routing Init code for Native IOS only
* 
* October 2001, Rashmi Shrivastava
* 
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
* ---------------------------------------------------------------
* $Log$
* ---------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c

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

/*
 *
* ---------------------------------------------------------------
* Generic route tag list support.
* 
* June 2011, Karthik Subramaniam
* 
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
* ---------------------------------------------------------------
* $Endlog$
*/

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmnr/include/routetag_list.h

No license file was found, but licenses were detected in source scan.
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_actions.c
No license file was found, but licenses were detected in source scan.

/* $Id: ip_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi $
* $Source: /view/vkoshi-
* comp_routing_rel5.rel4_1_1_19.2460.ss.comp1.port/vob/ss.comp1/routing/iprouting_cmn/src/ip_prefixlist.c,v $ 
*------------------------------------------------------------------
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log: ip_prefixlist.c,v $
* Revision 1.1 2011/02/02 21:47:40 vkoshi
* checkin by port_commit
* *
* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen
* CSCdj88899: Prefix-list: sho ip prefix-list summ does not pause
* Branch: FIB_branch
*
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:32 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen
* CSCdj77190: Prefix-list: mishandling of long prefix-list names
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*------------------------------------------------------------------
* $Endlog$
* /

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
No license file was found, but licenses were detected in source scan.

/*/ *
*---------------------------------------------------------------
* ipv4_subsys.c - IPv4 Routing Startup Subsystem
*
* July 2005, Mark Schaefer
*
* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ipv4_subsys.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* route3_parse.h
*
* Route parser functions declarations.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/route3_parse.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* route1.c -- Routing Support: Common Routines
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------

Open Source Used In IOSXE Releases 17.7.1-RMs 3046
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routing_context_registry.h

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

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/network_constants.h

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

/* $Id: exec_show_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp $ */

* network_constants.h -- General Networking Constants

* June 2002, interest-idb

* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.

* *

*/

/* $Id: exec_show_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp $ */

* EXEC_SHOW_PROTOCOLS.H

* All Rights Reserved

* *

* $Log: exec_show_protocols.h,v $
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1 1995/07/01 12:16:21 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
* 
* Revision 2.1 1995/06/07 22:25:21 hampton
* Bump version numbers from 1.x to 2.x.
* 
*------------------------------------------------------------------
* $Endlog$
* */

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h
No license file was found, but licenses were detected in source scan.

/ *
*------------------------------------------------------------------
* routemap_ios.c -- Route map support routines that can be shared
* by RP and VIP/LC
* 
* July 1998 Wilber Su
* 
* Copyright (c) 1998-2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* */

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_ios.c
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* iprouting_parser.h -- IP routing parser API header file
* 
* April - 2007, Selva Subramanian
* 
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* */

Found in path(s):
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser.h
No license file was found, but licenses were detected in source scan.

/*--------------------------------------------------------------
 * iprouting_parse_blob.c
 *
 * Parser support for IP ROUTING .
 * This file implements proxy eols that call iprouting parser remote
 * registries.
 *
 * September 2001, Rashmi Shrivastava
 *
 * Copyright (c) 2001-2009 by cisco Systems, Inc.
 * All Rights Reserved
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
No license file was found, but licenses were detected in source scan.

/*
 * -----------------------------------------------
 * routemap_debug_flags.h -- Routemap debugging support
 *
 * July 1998, Wilber Su
 *
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
 * ip_stats.h - IP for topology aware stats
 *
 * February 2006, Jonsky Hsu
 *
 * Copyright (c) 2006-2008 by cisco Systems, Inc.
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/ip_stats.h
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * cfg_router_auto_summary.h
 * 
 * October 1993
 * 
 * Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.
 * All rights reserved.
 * 
 * Supports the router subcommand "auto-summary". Configures auto aggregation
 * of routing information to the network number level.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h
No license file was found, but licenses were detected in source scan.

/* routemap_internal.c -- Internal functions of routemap code.
 * 
 * May 2003, Tanya Shastri
 * 
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_internal.c
No license file was found, but licenses were detected in source scan.

/* $Id: exec_clear_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp $
 * $Source: /release/111/cvs/Xsys/ip/exec_clear_ip_prefixlist.h,v $
 *------------------------------------------------------------------
 * exec_clear_ip_prefixlist.h
 * 
 * July 1997, Enke Chen
 * 
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log: exec_clear_ip_prefixlist.h,v $
 * Revision 3.1.2.1 1997/12/17 21:36:58 enkechen
 * CSCdj61356: Prefix-list - facility for efficient route filtering

Open Source Used In IOSXE Releases 17.7.1-RMs 3051
* Branch: FIB_branch
* Revision 3.1 1997/12/17 01:46:34 enkechen
* Start with the new file.
*
*---------------------------------------------------------------
* $Endlog$
*="/"

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

/*$Id: cfg_router_maximum-paths.h,v 3.2 1995/11/17 17:32:11 hampton Exp $*/
* $Source:/swtal/cherf.111/ios/sys/iprouting/cfg_router_maximum-paths.h,v $*
*---------------------------------------------------------------
* cfg_router_maximum-paths.h
*
* <July> 1994 rchandra
*
* Copyright (c) 1994-2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
* $Log: cfg_router_maximum-paths.h,v $*
* Revision 3.2 1995/11/17 17:32:11 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:39 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:53 tli
* CSCDi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:44 hampton
* Bump version numbers from 1.x to 2.x.
*
*---------------------------------------------------------------
* $Endlog$
*="/"

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h
No license file was found, but licenses were detected in source scan.

/*$Id: ip_routing.h,v 3.2 1995/11/17 17:34:12 hampton Exp $*/
* $Source:/swtal/cherf.111/ios/sys/iprouting/ip_routing.h,v $*/
* All rights reserved.

*---------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routetag_list.h
No license file was found, but licenses were detected in source scan.

/* $Id$  *
* $Source$
*---------------------------------------------------------------
* iprouting_registry.c
*
* September 2001, Fan Kong
*
* All rights reserved.
*---------------------------------------------------------------
*$Log$
*---------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_registry.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_ip_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp $  *
* $Source: /release/111/cvs/Xsys/ip/cfg_ip_prefixlist.h,v $  *
*---------------------------------------------------------------
* cfg_ip_prefix.h -- IP Prefix List Parser Commands
*
* June 1997, Enke Chen
*
* All rights reserved.
*---------------------------------------------------------------
*$Log: cfg_ip_prefixlist.h,v $  *
* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen  *
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
* Revision 3.1  1997/12/17 01:46:33  enkechen
* Start with the new file.
*
*------------------------------------------------------------------
* $Endlog$
* /

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

/****************************************************************************
* routing_context.c
* 
* This file has global definitions for routing context support
* common to blob and iprouting processes.
* 
* March 2009, Derek Yeung
* 
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routing_context.c
No license file was found, but licenses were detected in source scan.

/****************************************************************************
* routemap_ios_chain.c -- Route-map generic ios parse chains that
* will be in both RP and VIP/LC
* 
* July 1998, Wilber Su
* 
* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_chain.c
No license file was found, but licenses were detected in source scan.

/****************************************************************************
* route3_blob.c
* 
Open Source Used In IOSXE Releases 17.7.1-RMs 3055
* IOS and blob specific route3.c parser functions.
* March 2002, Victor Kamensky
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route3_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * cfg_routemap_set.h
 * * Process route-map set subcommands.
 * * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set.h
No license file was found, but licenses were detected in source scan.

/*
 * ------------------------------------------------------------------
 * policylist_blob.c - Routines to handle policy-list commands.
 * Common for IOS and ION Blob.
 * November 2003, Siva Yaragalla
 * Copyright (c) 2003-2008, 2010 by cisco Systems, Inc.
 * All rights reserved.
 * ------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/policylist_blob.c
No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route2.c
No license file was found, but licenses were detected in source scan.

/*================================================================--
* CFG_ROUTER_METRIC.H
*
* All Rights Reserved
*------------------------------------------------------------------
*$Log: cfg_router_metric.h,v *
* Revision 3.2 1995/11/17 17:32:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:41 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:54 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:46 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_metric.h
No license file was found, but licenses were detected in source scan.

/*================================================================--
* routemap_api.c -- Dynamic routemap APIs.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_api.c
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------
 * cfg_int_ip2_vnet_routing.h
 *
 * Interface VNET submode configuration IP commands.
 * *
 * Copyright (c) 2009-2010 by cisco Systems, Inc.
 * * All rights reserved.
 * *
 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_vnet_routing.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *---------------------------------------------------------------
 * cfg_route_map.h
 * *
 * Enter route-map subcommand mode
 * *
 * * All rights reserved.
 * *---------------------------------------------------------------
 * $Log$
 * *---------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_route_map.h
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------
 * routemap_debug.h -- Routemap debugging support
 * *
 * July 1998, Wilber Su
 * *
 * * All rights reserved.
 * *---------------------------------------------------------------
 */
Open Source Used In IOSXE Releases 17.7.1-RMs 3060

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routemap_debug.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* route3_ionized.c
*
* ION specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route3_ionized.c
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------
* CFG_ROUTER_BFD.H
*
* Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.
* All Rights Reserved
*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_bfd.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------
* router_af_parse.h
*
* Route Address Family parser functions declarations.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/router_af_parse.h
No license file was found, but licenses were detected in source scan.

/*
 *--------------------------------------------------------------
 * route_map_ion.h - Route map support data structures specific to ION.
 *
 * January 2002, Siva Yaragalla
 *
 * Copyright (c) 2002-2009, 2011 by cisco Systems, Inc.
 * All rights reserved.
 *--------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/route_map_ion.h

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

/* $Id$
 * $Source$
 *--------------------------------------------------------------
 * iprouting_commands.h -- Support for extern command function declaration
 *
 * September 2001, Rashmi Shrivastava
 *
 * Copyright (c) 2001-2010, 2013, 2016 by cisco Systems, Inc.
 * All rights reserved.
 *--------------------------------------------------------------
 * $Log$
 *--------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/iprouting_commands.h

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

/*
 *--------------------------------------------------------------
 * protofltr_debug_flags.h -- Protofltr manager debug flags declarations
 *
 * Jan 2006, Mercia Zheng
 *
 * Copyright (c) 2005-2008 by Cisco Systems, Inc.
 * All rights reserved.
 *--------------------------------------------------------------
 */
*/

* routemap_track_ios.c -- Route map support for tracking
* Functions shared by rp & vip.
*
* March 2003  Shyan Wignarajah
*
* Copyright (c) 2003-2010, 2013-2014, 2016 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

/*
*------------------------------------------------------------------
* msg_iproute.c - Message file for iproute facility
* 
* July 17, 1990, Kevin Paul Herbert
*
* Copyright (c) 1990-2013, 2015-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

/*
*------------------------------------------------------------------
* router_af_actions.h
* 
* Router Address Family action declarations.
* 
* May 2002, Victor Kamensky
*
* All rights reserved.
*------------------------------------------------------------------
*/

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

* $Id: cfg_router_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_timers.h,v $
* *------------------------------------------------------------------
* CFG_ROUTER_TIMERS.H
* *
* All Rights Reserved
*------------------------------------------------------------------
* $Log: cfg_router_timers.h,v $
* Revision 3.2.60.1 1996/04/15 21:17:46 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
* *
* Revision 3.2 1995/11/17 17:32:28 hampton
* Remove old entries from the RCS header logs.
* *
* Revision 3.1 1995/11/09 12:06:09 shaker
* Bump version numbers from 2.x to 3.x.
* *
* Revision 2.1 1995/07/01 12:16:04 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
* *
* Revision 2.1 1995/06/07 22:13:13 hampton
* Bump version numbers from 1.x to 2.x.
* *
*----------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_timers.h
No license file was found, but licenses were detected in source scan.

*/ $Id: cfg_routemap_set_ip_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_ip_policy.h,v $
*----------------------------------------------------------------------
* cfg_routemap_set_ip_policy.h -- IP policy specific route map clauses
* *
* Mar 1995 Tony Li
* *
* All rights reserved.
*----------------------------------------------------------------------
* Generic prefix list support - prefix lists private header file
*
* March 2002, Siva Yaragalla
*
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmnn/src/ip_prefixlist_private.h

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

/* $Id: cfg_ip_routing_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_ip_routing_routing.h,v $
*---------------------------------------------------------------
* IP routing routing commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
* $Log: cfg_ip_routing_routing.h,v $
* Revision 3.3.46.3  1996/08/12  16:03:33  widmer
* USDA65725:  Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.46.2  1996/06/17  23:33:31  hampton
* Implement the long sought parser "default" keyword. [CSCdi60510]
* Branch: California_branch
*
* Revision 3.3.46.1  1996/04/15  21:17:41  bcocle
* CSCdi54649:  IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.3  1995/12/10  00:42:36  pst
* CSCdi38750:  Allow static routes with both next hop and interface
* also add "permanent" keyword for non-flapping static routes
*
* Revision 3.2  1995/11/17  17:31:40  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09  12:04:59  shaker
Bump version numbers from 2.x to 3.x.

Revision 2.4 1995/10/23 18:33:19 pst
* CSCdi42608: allow IP cache ager to be shut down, make the
*   "ip cache-ager" and "ip cache-invalidate-delay"
*   commands internal only.
*
Revision 2.3 1995/07/13 21:39:05 ahh
* CSCdi36962: UDP parsing of tacacs-ds port name broken
* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS_PORT
* for backwards compatibility.
*
Revision 2.2 1995/07/11 21:52:08 raj
* CSCdi36510: parser doesn't accept ip forward-protocol udp xdmcp
* (Actually the parser didn't accept *any* symbolic names in the position
* of the UDP port number; only numbers. It now uses the UDP_PORT macro
* instead.
*
Revision 2.1 1995/07/01 12:15:42 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
Revision 2.1 1995/06/07 22:08:34 hampton
* Bump version numbers from 1.x to 2.x.
*
$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_routing_routing.h
No license file was found, but licenses were detected in source scan.

/*
*exec_debug_protofltr.h
* Jan 2006, Mercia Zheng
* Copyright (c) 2005-2009 by cisco Systems, Inc.
* All Rights Reserved
* */

Found in path(s):
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_debug_protofltr.h
1.210 libaio 0.3.111 r0

1.211 libtirpc 1.1.4-4.el8
1.211.1 Available under license:

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1.214 python3-pysocks 1.7.1 r0

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

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

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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directing the user to the copy of this License. Also, you must do one
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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
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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
interface-compatible with the version that the work was made with.

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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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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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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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to use the modified definitions.)

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
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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1.222 util-linux 2.32.1-26.el8

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1.239 vim 8.1.1518 r0

1.240 grpc 1.24.1 r0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
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This script is compatible with the BSD install script, but was written
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Files: aclocal.m4 package 
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Files: doc/html/NCURSES-Programming-HOWTO.html 
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.253 glibc-all-langpacks 2.28-145.el8

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That's all there is to it!

1.256 python3-more-itertools 7.2.0 r0

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1.257 libcom-err 1.45.6-1.el8

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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): $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

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

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

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

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

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

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Index: tdbsa/tdb.c
--- tdbsa.org/tb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007
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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.263 cpp 9.2.0 r0

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under open source licenses.

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

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

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

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Version 3, 29 June 2007
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(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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1.269 lldpd 1.0.3 r0

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1.271 sysklogd 1.5.1 r0

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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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Markus F.X.J. Oberhumer
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*/

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/*******************************************************
 //
 *******************************************************/

#define LZO_COMPRESS \    LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)

#define LZO_COMPRESS_FUNC \    LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)
const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
        lzo_bytep out, lzo_uintp out_len,
        lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

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1.277 elfutils-default-yama-scope 0.182-3.el8

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```
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```

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```
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};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\ sed -e 's/.*,\[/\ / -e 's/\]/\]/' < ../sntp/m4/version.m4`
[ -z '${VERSION}' ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "/` Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
//    sub-name = version;
//    sub-text = 's/#VERSION#/<<version>>/g';
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-- Changed by: Harlan Stenn, 10-Mar-2014 -->
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</head>
<body>
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<p>Last update:
<-- #BeginDate format:En2m -->2-Jan-2017 11:58<-- #EndDate -->
UTC</p>
<br clear="left">
<hr>
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</pre>
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- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael,barone@lmc0.com> GPSVME fixes
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- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csco.co.za> vxWorks (Tornado) port and
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47. [51] Nick Sayer <mrapple@ quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@ innovativeinternet.com> Saved a Lot of
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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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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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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.

A "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
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more than your reasonable cost of physically performing this
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Corresponding Source from a network server at no charge.

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only if you received the object code with such an offer, in accord
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e) Convey the object code using peer-to-peer transmission, provided
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1.291 linux-kernel v4.4.238 c7e745409884

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

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(For example, a function in a library to compute square roots has
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
 *
*
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*
* M. Welsh, 6 July 1996
*
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for his contributions to the dvb-net driver
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.297 gnulib 2018-03-07.03 r0

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Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir='$(abs_aux_dir)'
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@center Version 2.1, February 1999

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Files:
- tests/test-canonicalize-lgpl.c
- tests/signature.h
- tests/null-ptr.h
- tests/macros.h

Depends-on:
- ignore-value
- same_inode
- symlink

configure.ac:

Makefile.am:
- TESTS += test-canonicalize-lgpl
- check_PROGRAMS += test-canonicalize-lgpl

$Id: COPYING,v 1.3 2006-10-26 16:20:28 eggert Exp $

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@end enumerate

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Accompany it with a written offer, valid for at least three
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cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

Accompany it with the information you received as to the offer
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The source code for a work means the preferred form of the work for
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@end enumerate

@ifx
@heading END OF TERMS AND CONDITIONS
@end ifx
@ifinfo
@end ifinfo
@page
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}

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

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

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

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Description:
Concatenate two arbitrary file names.
Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
The files in this directory describe the gnumib modules.
The following copyright notice applies to each of these
description files.

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Please email the following information to assign@gnu.org, and we
will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject
line of the message.
-------------------------------------------------------------------
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES
-------------------------------------------------------------------

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes?
Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own
your changes? Do you attend a school which might make such a claim?]
[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]
Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4
Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
  AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake
Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)
The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms—for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms—we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper—a disclaimer of rights—from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest
in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

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It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdlib
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all

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Version 2, June 1991

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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
cHECK_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)
Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
  extensions
  stdlib
  nocrash
  alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  malloca [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
  sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:
  gl_CANONICALIZE_LGPL
  if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
    AC_LIBOBJ([canonicalize-lgpl])
  fi
  gl_MODULE_INDICATOR([canonicalize-lgpl])
  gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
  gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:

Include:
  <stdlib.h>

License:
  LGPLv2+

Maintainer:
  all
  Description:
    Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
  dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
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Maintainer:
Jim Meyering, Eric Blake

1.298 epel-release 8-8.el8
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1.299 xz 5.2.4 r0
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==================

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1.305 python3-pretend 1.0.9 r0

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1.306 kmod-libs 25-16.el8

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

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1.311 trace-cmd 2.8.3 r0
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1.315 gmp 6.1.2 r0

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1.316 tpm2-tss 3.0.1 r0

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1.317 gnutls 3.6.14-7.el8_3

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1.318 python 4.14.3-4.el8

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

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

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

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

That's all there is to it!

1.319 go-mux git r0
1.319.1 Available under license:

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1.329 libgcc 9.2.0 r0

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Julian Seward, jseward@bzip.org

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DRuntime: Runtime Library for the D Programming Language

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1.338 yum 4.4.2-2.el8

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:
- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```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

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")
```
def t_error(t):
    print("Illegal character ‘%s’" % t.value[0])
t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]
def p_expression_name(p):
    'expression : NAME'
try:
    p[0] = names[p[1]]
except LookupError:
    print("Undefined name '%s'", % p[1])
p[0] = 0

def p_error(p):
    print("Syntax error at '%s'", % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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* /opt/cola/permits/1184059232_1631086158.54/0/c17572f5243280a80727ee866bc8e2639335192f ply-3-11-tar-gz/ply-3.11/README.md
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Metadata-Version: 1.1
Name: ply
Version: 3.11
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that it is implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking. It is compatible with both Python 2 and Python 3.

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(For example, a function in a library to compute square roots has

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1.349 python-uwsgi 2.0.18 r0

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1.365 systemd-bootchart

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1.366 bash4 4.2 r6

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John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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@c End:
From mikel@ora.com Tue Aug  1 12:13:20 1995
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Return-Path: mikel@ora.com
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
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1.367 tipc-utils
2.2.0+gitAUTOINC+7ab2211b87 r0

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

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

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

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

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with

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other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.373 python-funcsigs 1.0.2 r0

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1.375 popt 1.16 r3

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtshal
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
Fryisinger, 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
Irriegang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienlenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kraenenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keezi, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznan, Tomislav
Marchal, Frédéric
Margevičius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fábio
Uranga, Mikel Olasagasti
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1.379 linux-kernel v4.9.268 8bc5d0c60dca

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1.380 python3-click 7.1.1 r0

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/_compat.py
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Metadata-Version: 1.2
Name: click
Version: 7.1.1
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Description: \$ 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`:

---

Open Source Used In IOSXE Releases 17.7.1-RMs 4873
.. 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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* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/LICENSE.rst

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

```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/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*?)", f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    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.*",
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Intended Audience :: Developers",
    ],
```
As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/
1.381 email 4.0.2 r0

1.382 python3-pyspellchecker 0.5.4 r0

1.382.1 Available under license:

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1.383 python3-zipp 0.6.0 r0

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1.384 cracklib 2.9.5 r0
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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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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.

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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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.

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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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!

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

---mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writers what license they should be using. thus LGPL-2.1 enters to fill this void.

--mike

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >
> > On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
> > directly
> > > and see if he wants to relicense his code as LGPL... but at this
> > point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

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

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

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

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

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

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

yes, go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> yes. go for it. thanks++

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

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id i91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
    Mime-Version: 1.0 (Apple Message framework v752.2)
    In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
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Happy now? :-)

-a

1.385 coreutils 8.30-8.el8

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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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1.395 libunwind 1.3.1 r0
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1.397 rdma-core 30.2 r0

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1.399 unzip 6.0 r5
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The original unzip source code has been extensively modified and
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* 
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* 
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.400 python3-importlib-metadata 0.23 r0
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greentest/2.7.8  
greentest/2.7pypy  
greentest/3.3  
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gevent/libuv/_coreffi_source.c
gevent/libuv/_coreffi_cdef.c

Originally based on code from https://github.com/veegee/guv

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/***
* ASM: a very small and fast Java bytecode manipulation framework
*/

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#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifdef DEBUG_STKOVF
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;
/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
  struct macro_definition *next;
  int code; /* D, U, s, t, \l, or DEBUGFILE_OPTION. */
  const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
 | Wrapper around error. |
`-----------------------*/

void m4_error (int status, int errnum, const char *format, ...)
{
  va_list args;
  va_start (args, format);
  verror_at_line (status, errnum, current_line ? current_file : NULL,
                   current_line, format, args);
  if (fatal_warnings && ! retcode)
    retcode = EXIT_FAILURE;
  va_end (args);
}

/*-----------------------.
 | Wrapper around error_at_line. |
`-----------------------*/

void m4_error_at_line (int status, int errnum, const char *file, int line,
                        const char *format, ...)
{
  va_list args;
va_start (args, format);
verror_at_line (status, ernum, line ? file : NULL, line, format, args);
if (fatal_warnings && ! retcode)
  retcode = EXIT_FAILURE;
va_end (args);
}
#endif
#endif
	define SIGBUS SIGILL
#endif
#ifndef NSIG
#ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, MAX (SIGSEGV, SIGBUS)))) + 1)
#endif
/* Pre-translated messages for program errors. Do not translate in
the signal handler, since gettext and strsignal are not
async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];
/* Print a nicer message about any programmer errors, then exit. This
must be async-signal safe, since it is executed as a signal
handler. If SIGNO is zero, this represents a stack overflow; in
that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
  if (signo)
  {
    /* POSIX states that reading static memory is, in general, not
async-safe. However, the static variables that we read are
never modified once this handler is installed, so this
particular usage is safe. And it seems an oversight that
POSIX claims strlen is not async-safe. Ignore write
failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
  WRITE (STDERR_FILENO, program_name, strlen (program_name));
  WRITE (STDERR_FILENO, ": ", 2);
  WRITE (STDERR_FILENO, program_error_message,
    strlen (program_error_message));
  if (signal_message[signo])
  {
    WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, signal_message[signo],
    strlen (signal_message[signo]));
}
WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
_exit (EXIT_INTERNAL_ERROR);
}

/*---------------------------------------------.
| Print a usage message and exit with STATUS. |
'---------------------------------------------*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
    xfprintf (stderr, "Try '\%s --help' for more information.\n", program_name);
else
{
    xprintf ("Usage: %s [OPTION]... [FILE]...
", program_name);
    fputs ("\n\nProcess macros in FILEs. If no FILE or if FILE is `-', standard input\nis read.\n\n\nMandatory or optional arguments to long options are mandatory or optional\nfor short options too.\n\n\nOperation modes:\n\n    --help display this help and exit\n\n    --version output version information and exit\n\n    -, stdout);\n    xprintf ("\n    -E, --fatal-warnings once: warnings become errors, twice: stop\n\n    execution at first error\n\n    -i, --interactive unbuffer output, ignore interrupts\n\n    -P, --prefix-builtins force a `m4_' prefix to all builtins\n\n    -Q, --quiet, --silent suppress some warnings for builtins\n\n    --warn-macro-sequence=[=REGEXP]\n    warn if macro definition matches REGEXP,\n    default %s\n\n    -, DEFAULT_MACRO_SEQUENCE);\n    ifdef ENABLE_CHANGEWORD
    fputs ("\n    -W, --word-regexp=REGEXP use REGEXP for macro name syntax\n\n    "/}
}
Preprocessor features:

-D, --define=NAME[=VALUE]    define NAME as having VALUE, or empty
-I, --include=DIRECTORY       append DIRECTORY to include path
-s, --synclines                generate '#line NUM "FILE"' lines
-U, --undefine=NAME            undefine NAME

Limits control:

-g, --gnu                    override -G to re-enable GNU extensions
-G, --traditional            suppress all GNU extensions
-H, --hashsize=PRIME          set symbol lookup hash table size [509]
-L, --nesting-limit=NUMBER    change nesting limit, 0 for unlimited [%d]

Frozen state files:

-F, --freeze-state=FILE       produce a frozen state on FILE at end
-R, --reload-state=FILE       reload a frozen state from FILE at start

Debugging:

-d, --debug=[FLAGS]           set debug level (no FLAGS implies `aeq')
--debugfile=[FILE]            redirect debug and trace output to FILE
                              (default stderr, discard if empty string)
-l, --arglength=NUM           restrict macro tracing size
-t, --trace=NAME              trace NAME when it is defined

FLAGS is any of:

  a   show actual arguments
  c   show before collect, after collect and after call
  e   show expansion
  f   say current input file name
  i   show changes in input files
  l   say current input line number
  p   show results of path searches
  q   quote values as necessary, with a or e flag
  t   trace for all macro calls, not only traceon'ed
  x   add a unique macro call id, useful with c flag
  V   shorthand for all of the above flags

" , stdout);
#endif

Preprocessor features:

-D, --define=NAME[=VALUE]    define NAME as having VALUE, or empty
-I, --include=DIRECTORY       append DIRECTORY to include path
-s, --synclines                generate '#line NUM "FILE"' lines
-U, --undefine=NAME            undefine NAME

" , stdout);
puts ("

xprintf (_("\n
Frozen state files:\n
-F, --freeze-state=FILE       produce a frozen state on FILE at end\n-R, --reload-state=FILE       reload a frozen state from FILE at start\n" , stdout);

" , stdout);

Frozen state files:\n
-F, --freeze-state=FILE       produce a frozen state on FILE at end\n-R, --reload-state=FILE       reload a frozen state from FILE at start\n
" , stdout);

Debugging:

-d, --debug=[FLAGS]           set debug level (no FLAGS implies `aeq')
--debugfile=[FILE]            redirect debug and trace output to FILE
                              (default stderr, discard if empty string)
-l, --arglength=NUM           restrict macro tracing size
-t, --trace=NAME              trace NAME when it is defined

FLAGS is any of:

  a   show actual arguments
  c   show before collect, after collect and after call
  e   show expansion
  f   say current input file name
  i   show changes in input files
  l   say current input line number
  p   show results of path searches
  q   quote values as necessary, with a or e flag
  t   trace for all macro calls, not only traceon'ed
  x   add a unique macro call id, useful with c flag
  V   shorthand for all of the above flags

" , stdout);
fputs ("

If defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.
",
stdout);

fputs ("

Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.
",
stdout);

emit_bug_reporting_address ();
}
exit (status);
}

/*----------------------------------------------------------------------------*/
| Decode options and launch execution. |
|--------------------------------------*/

/* For long options that have no equivalent short option, use a non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
  DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
  DIVERSIONS_OPTION, /* not quite -N, because of message */
  WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
  HELP_OPTION, /* no short opt */
  VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
  {"arglength", required_argument, NULL, 'l'},
  {"debug", optional_argument, NULL, 'd'},
  {"define", required_argument, NULL, 'D'},
  {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
  {"fatal-warnings", no_argument, NULL, 'E'},
  {"freeze-state", required_argument, NULL, 'F'},
  {"gnu", no_argument, NULL, 'g'},
  {"hashsize", required_argument, NULL, 'H'},
  {"include", required_argument, NULL, 'I'},
  {"interactive", no_argument, NULL, 'i'},
  {"nesting-limit", required_argument, NULL, 'L'},
  {"prefix-builtins", no_argument, NULL, 'P'},
  {"quiet", no_argument, NULL, 'q'},
  {"reload-state", required_argument, NULL, 'R'},
  {"silent", no_argument, NULL, 'Q'},
};
"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#endif
{"word-regexp", required_argument, NULL, 'W'},
#endif
{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},
{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},
{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
stdin. */
static void
process_file (const char *name)
{
if (STREQ (name, "-"))
{
    /* If stdin is a terminal, we want to allow `m4 - file -'
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to
minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
else
{
    char *full_name;
    FILE *fp = m4_path_search (name, &full_name);
    if (fp == NULL)
    {
        error (0, errno, _("cannot open '%s'"), name);
        /* Set the status to EXIT_FAILURE, even though we
continue to process files after a missing file. */
        retcode = EXIT_FAILURE;
        return;
    }
push_file (fp, full_name, true);
    free (full_name);
}
expand_input ();
}
/* POSIX requires only -D, -U, and -s; and says that the first two
must be recognized when interspersed with file names. Traditional
behavior also handles -s between files. Starting OPTSTRING with
'\' forces getopt_long to hand back file names as arguments to opt
\'M', rather than reordering the command line. */

#ifdef ENABLE_CHANGEWORD

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;   /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;              /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack overflow and program error handling. Ignore failure to
       install a handler, since this is merely for improved output on
       crash, and we should never crash ;). We install SIGBUS and
       SIGSEGV handlers prior to using the c-stack module; depending on
       the platform, c-stack will then override none, SIGSEGV, or both
       handlers. */
    program_error_message
        = xasprintf (_("internal error detected; please report this bug to <\%s>"),
                      PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
Signal handling code for fault handling in Open Source. This code blocks various signals, sets up a custom signal handler, and handles faults by printing a message and exiting the program.

```c
signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
    signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
to default signal behavior. */
act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
attempts a SIGSEGV, exporting it as 1 attempts an assertion
failure with a fallback to abort. */
{
    char *crash = getenv ("M4_CRASH");
    if (crash)
        {
            if (! strtol (crash, NULL, 10))
                ++ (*(int *) 8);
            assert (false);
            abort ();
        }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;
while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
long_options, NULL)) != -1)
switch (optchar)
{
    default:
        usage (EXIT_FAILURE);

    case 'B':
    case 'S':
    case 'T':
        /* Compatibility junk: options that other implementations
support, but which we ignore as no-ops and don't list in
--help. */
```
error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
    optarg);
break;

case 'N':
    case DIVERSIONS_OPTION:
        /* -N became an obsolete no-op in 1.4.x. */
        error (0, 0, _("warning: `m4 %s' is deprecated"),
            optarg == 'N' ? "-N" : "--diversions");
        break;

case 'D':
    case 'U':
    case 's':
    case 't':
    case ':':
    case 'l':
    case DEBUGFILE_OPTION:
        /* Arguments that cannot be handled until later are accumulated. */
        defn = (macro_definition *) xmalloc (sizeof (macro_definition));
        defn->code = optarg;
        defn->arg = optarg;
        defn->next = NULL;
        if (head == NULL)
            head = defn;
        else
            tail->next = defn;
        tail = defn;
        break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
hash_table_size = strtol(optarg, NULL, 10);
if (hash_table_size == 0)
    hash_table_size = HASHMAX;
break;

case 'T':
    add_include_directory(optarg);
    break;

case 'L':
    nesting_limit = strtol(optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode(optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: \"%s\""), optarg);
        debug_level = 0;
    }
    break;

case 'e':
    error (0, 0, _("warning: \`m4 -e\' is deprecated, use \`-i\' instead"));
    /* fall through */
    case 'i':
        interactive = true;
        break;

case 'g':

no_gnu_extensions = 0;
break;

case 'T':
max_debug_argument_length = strtol(optarg, NULL, 10);
if (max_debug_argument_length <= 0)
    max_debug_argument_length = 0;
break;

case 'o':
  /* -o/--error-output are deprecated synonyms of --debugfile,
     but don't issue a deprecation warning until autoconf 2.61
     or later is more widely established, as such a warning
     would interfere with all earlier versions of autoconf. */
  /* Don't call debug_set_output here, as it has side effects. */
  debugfile = optarg;
break;

case WARN_MACRO_SEQUENCE_OPTION:
  /* Don't call set_macro_sequence here, as it can exit.
     --warn-macro-sequence sets optarg to NULL (which uses the
     default regexp); --warn-macro-sequence= sets optarg to ""
     (which disables these warnings). */
  macro_sequence = optarg;
break;

case VERSION_OPTION:
  version_etc(stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
  exit(EXIT_SUCCESS);
break;

case HELP_OPTION:
  usage(EXIT_SUCCESS);
break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output(debugfile))
    M4ERROR((warning_status, errno, "cannot set debug file \"%s\", debugfile));

input_init();
output_init();
symtab_init();
set_macro_sequence(macro_sequence);
include_env_init();
if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
    case 'D':
        /* defines->arg is read-only, so we need a copy. */
        char *macro_name = xstrdup (defines->arg);
        char *macro_value = strchr (macro_name, '=');
        if (macro_value)
            *macro_value++ = '\0';
        define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
        free (macro_name);
        break;
    case 'U':
        lookup_symbol (defines->arg, SYMBOL_DELETE);
        break;
    case 't':
        sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
        SYMBOL_TRACED (sym) = true;
        break;
    case 's':
        sync_output = 1;
        break;
    }
case '\1':
  seen_file = true;
  process_file (defines->arg);
  break;

case DEBUGFILE_OPTION:
  if (!debug_set_output (defines->arg))
    M4ERROR ((warning_status, errno, "cannot set debug file \"%s\"
             , debugfile ? debugfile : (_("stderr"))));
  break;

default:
  M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
  abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
 and the input read. Wrapup text is handled separately later. */

if (optind == argc &amp;&amp; !seen_file)
  process_file ("-");
else
  for (; optind &lt; argc; optind++)
    process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
  expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
 stream and detect any errors it might have encountered. The
 three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
  produce_frozen_state (frozen_file_to_write);
else
  {
    make_diversion (0);
    undivert_all ();
  }
output_exit ();
free_macro_sequence ();
exit (retcode);
}

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**1.410 systemd 1:243.2-r0**

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1.412 device-mapper 8:1.02.175-0.4.20201222gitb84a992.el8

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS
0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

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.

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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by the Installation Information. But this requirement does not apply  
if neither you nor any third party retains the ability to install  
modified object code on the User Product (for example, the work has  
been installed in ROM).  

The requirement to provide Installation Information does not include a  
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1.417 go-fsnotify

1.2.11+gitAUTOINC+836bfd95fe r0

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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

SHAREDLIBFLAGS = -fPIC  
SHAREDLIBXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=  
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c  
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c  
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

## Dependency rules

%.d: $(srcdir)/%.c

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

## Versioned libraries rules

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

## Bind internal references

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

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

## Remove shared library ‘s’
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.422 lm-sensors 3.5.0 r0
1.422.1 Available under license:

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.

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

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1.424 cryptsetup-libs 2.3.3-2.el8

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding 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...
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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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1.443 python3-pnp 3.0.0.dev2 r0
1.443.1 Available under license:
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[bdist_rpm]
release = 1
packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
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Found in path(s):
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/api/platform_discovery.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/utils/timer.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/system/cdp.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/utils/pnp_file_paths.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/utils/file_utils.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/service/action.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/exec_log.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/service/services/reload.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/system/user_auth.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/api/notify.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/service/api/pnp_service.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/network/http_conn_client.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/xml/xmlparser.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/system/certificate.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/infra/lease_parser.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/infra/notify.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/api/clock_sync.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/profile/profile_manager.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/api/capwap.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/api/monitor.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/service/services/redirection.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/system/script_exec.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/infra/policy.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/infra/policy.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/dns_discovery.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/utils/pnp_constants.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/infra/api/vrf.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3.0.0-dev2.tar.gz/pnp-3.0.0.dev2/pnp/service/handler.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/monitor.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/reasons.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/vbond.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/user_auth.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/pnp_utils.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/connection_client.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/device.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/vbond.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/event.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/sdwan_ztp_discovery.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/tag.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/discovery_manager.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/resolve.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/iface_info_db.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_auth.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/cli_config.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/script.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/platform_discovery.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/cdp.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/topology.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/clock_sync.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/errors.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/errors.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/vrf.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/reload.py
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/security.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: pnp
Version: 3.0.0.dev2
Summary: Plug-n-Play Agent for Cisco Network-PnP
Home-page: https://developer.cisco.com/site/open-plug-n-play/
Author: Network Plug-n-Play
Author-email: pnp-support@cisco.com
License: Cisco Proprietary
Description: UNKNOWN
Keywords: posix pnp agent plug-n-play client
Platform: UNKNOWN
Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python :: 3.6
Requires-Python: >=3.6

Found in path(s):
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/ PKG-INFO
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO
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license='Cisco Proprietary',

Found in path(s):
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.py

1.444 python3-pyserial 3.4 r0

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1.445 python3-attrs 19.3.0 r0
1.445.1 Available under license:

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1.446 python3-cffi 1.14.0 r0
1.446.1 Available under license:

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1.449 python-pyserial 3.4 r0
1.449.1 Available under license:

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1.453 python3-cryptography-vectors 2.9 r0

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1.468 cairo 1.16.0 r0

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1.477 python3-idna 2.9 r0
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```python
from setuptools import setup
def main():

import io, sys
from setuptools import setup
```
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',
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        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
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        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()
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* /opt/cola/permits/1084378005_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/LICENSE.rst
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Metadata-Version: 1.2
Name: idna
Version: 2.9
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
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:
$ pip install idna

Alternatively, you can install the package using the bundled setup script:

$ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
# 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:

```
# 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:

```
# Python 2
>>> idna.alabel(u")
```
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.

```python
# Python 3
>>> import idna
>>> idna.encode(u'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.

```python
# 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 `CONTENXO` or `CONTEXTJ` but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. `PVALID`, `CONTEXTJ`, `CONTENXO`) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org>`.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.
The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: 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 :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1084378005_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/PKG-INFO
* /opt/cola/permits/1084378005_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/idna.egg-info/PKG-INFO
1.478 attr 2.4.47 r0

1.478.1 Available under license:

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1.482 net-tools 1.60-26 r0

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your option) any later version.

*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#else
#include <linux/ax25.h>
#endif
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"
static char netrom_errmsg[128];
extern struct aftype netrom_aftype;
static char *NETROM_print(unsigned char *ptr)
{
static char buff[8];
int i;
for (i = 0; i < 6; i++) {
buff[i] = ((ptr[i] & 0377) >> 1);
if (buff[i] == ' ')
buff[i] = '\0';
}
buff[6] = '\0';
i = ((ptr[6] & 0x1E) >> 1);
if (i != 0)
sprintf(&buff[strlen(buff)], "-%d", i);
return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
char buf[64];
if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{

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unsigned char *ptr;
char *orig, c;
unsigned int i;
sap->sa_family = netrom_aftype.af;
ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;
/* First, scan and convert the basic callsign. */
orig = bufp;
i = 0;
while ((*bufp != '\0') && (*bufp != '-') && (i < 6)) {
c = *bufp++;
if (islower(c))
c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = EINVAL;
return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;
}
/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}
/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
*ptr = (unsigned char) '\0';
}

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/* All done. */
#define DEBUG
    fprintf(stderr, "netrom_input(%s); ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "n");
#endif
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s
", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s
", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

#if 0
    /* Set the line discipline of a terminal line. */
    static int KISS_set_disc(int fd, int disc)
    {
        if (ioctl(fd, TIOCSETD, &disc) < 0) {
            fprintf(stderr, "KISS_set_disc(%d): %s
", disc, strerror(errno));
        return (-errno);
        }
        return (0);
    }

    /* Start the KISS encapsulation on the file descriptor. */
    static int KISS_init(int fd)
    {
        if (KISS_set_disc(fd, N_SLIP) < 0)
            return (-1);
        if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
#endif/* HAVE_AFNETROM */

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Version 2.1, February 1999

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.486 libsigsegv 2.11-5.el8

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 ASN.1 library for Python
 =========================

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 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 `<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/protobuf/>`_ 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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/pyasn1/contents

Use case
--------

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


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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Found in path(s):
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ASN.1 library for Python
------------------------
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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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)
        ),
        ),
    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
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1.491 sfdisk 2.25.2 r0

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

--------------------
Create default BSD
2e1cee529eb59e9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.
Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

Command (m for help):
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1.492 go-context git r0
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1.493 grep 3.3 r0

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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.

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.

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.

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.

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:

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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@end subheading END OF TERMS AND CONDITIONS

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

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b) Use a suitable shared library mechanism for linking with the 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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1.511 rpm 4.14.2.1 r0

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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.

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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1.512 libyaml 0.2.2 r0

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1.513 lvm2 2.03.02 r0
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1.523 bzip2 1.0.8 r0

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.524 gnutls 3.6.13 r0

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Name: pathlib
Version: 2.3.4
Summary: Object-oriented filesystem paths
Home-page: https://github.com/mcmtroffaes/pathlib2
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
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Description: 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:
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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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1.539 nmap 7.80 r0

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- **PCRE:** Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  
  http://www.pcre.org/

- **liblua:** Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  
  http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/


On Windows only, Nmap uses:

  o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

  Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
  o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
  o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/
  o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
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  http://expat.sourceforge.net/
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  http://xmlsoft.org/
- SQLite.
  http://www.sqlite.org/
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  http://www.pygtk.org/
- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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

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Email local part: ph10
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Because of this blurred distinction, using the ordinary General
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1.549 python3-py 1.8.0 r0
1.549.1 Available under license :

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1.550 iputils 20180629-6.el8
1.550.1 Available under license :

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/*
 * ---------------------------------------------------------------
 * util_ip.c -- miscellaneous ip specific utility routines
 * *
 * Feb 2008, Hiral mehta
 * *
 * Copyright (c) 2008, 2014 by cisco Systems, Inc.
 * All rights reserved.
 * ---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1210918082_1633472805.70/ip-tar/ip/src/ip_util.c
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * ip_parser_macros.h - IP* macros moved out of
 * 		sys/parser/macros.h
 * November, 2004
 *
 * Copyright (c) 2004, 2009-2010 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 *
 */

Found in path(s):
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/include/ip_parser_macros.h
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/*
 *------------------------------------------------------------------
 * ipaddress_api.h
 *
 * February 2004
 *
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 *------------------------------------------------------------------
 *
 */

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* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/include/ipaddress_api.h
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## Component "ip":
##
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##
syntax: 1.0.0

# meta-source files found within component 'ip'
group: generic
{

include/reg/ip_15_registry.reg
include/reg/ip_registry.reg

# migrated from file: 'ip/src/src.mk'
group: top
{
    includes: $(IOS_SYSROOT)/ion/include $(COMPONENT_ROOT)/posix/include
    # These diagnostic disables are temporary and must be removed
    # after fixing the problems in the source code
    if: compiler == gcc.c4.7
    {
        cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare
    }
sub: ip_parser
{
    contains:
        src/ip_parser_linkpoints.c
}
sub: ip_registry
{
    contains:
        src/ip_registry.c
}
sub: ip_util
{
    contains:
        src/ip_util.c
}
}
# end of group: top

##

Found in path(s):
* /opt/cola/permits/1210918082_1633472805.70/ip-tar/ip/content.lst
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/*
 * ____________________________________________________________
 * ip_parser_linkpoints.c - IP related parser linkpoint definitions.
 * *
 * April, 2005
 * *
 * Copyright (c) 2005, 2008-2009, 2014 by cisco Systems, Inc.
 * All rights reserved.
 * */
No license file was found, but licenses were detected in source scan.

```
/*
 *  The file ip_registry.reg has been re-factored into 44 different
 *  registries to address the 2G problem. The detail regarding the
 *  mapping of registries into services is available at
 *  /vob/ios.sys1/deprecated/sys/ip/ip_registry_map.txt
 *  For further detail regarding the re-factoring of registries,
 *  please mail in your queries to dolphins@cisco.com
 */
```

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```
/*
 *  All rights reserved.
 */
```

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

```
/*
 *  All rights reserved.
 */
```

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

```
# All rights reserved.
```

No license file was found, but licenses were detected in source scan.
/*
 * .................................................................
 * ip_parser_linkpoints.h - IP related parser linkpoint decls.
 * *
 * April, 2005
 * *
 * *
 * .................................................................
 */

1.551 netcf 0.2.8+gitAUTOINC+2c5d425585 r0
1.551.1 Available under license :

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1.552 python-decorator 4.4.0 r0

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1.553 python3-greenlet 0.4.15 r0

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1.564 ndg-httpsclient 0.5.1-r0

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frystrong, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Albuquerque, Pedro
Bltermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frdric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
1.570 python3-flask 1.0.2 r0

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1.571 python3-pip-wheel 9.0.3-18.el8

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

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1.573 zlib 1.2.11 r0
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1.574 python-six 1.12.0 r0
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1.575 grub 2.04 r0

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1.582 tpm2-abrmd 2.3.3 r0

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1.584 libusb-compat 0.1.5 r0

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

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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

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

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* HP UX support.

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

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

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* Added CodedInputStream.getTotalBytesRead().

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

Andrew Paprocki <andrew@ishibo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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That's all there is to it!

1.594 libmnl 1.0.4 r0

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1.595 python3-paramiko 2.7.2 r0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.598 ncurses 6.1+20190803 r0

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# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.
ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \ 
-I$(top_srcdir)/lib/isc \ 
-I$(top_srcdir)/lib/isc/include \ 
-I$(top_srcdir)/lib/isc/unix/include \ 
-I$(top_srcdir)/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \ 
-I$(top_srcdir)/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \ 
-I$(top_srcdir)/lib/dns/include \ 
-I$(top_srcdir)/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \ 
-I$(top_srcdir)/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \ 
-I$(top_srcdir)/lib/lwres/include

TEST_INCLUDES = \ 
-I$(top_srcdir)/lib/tests/include

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_gnba.html
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*/

Found in path(s):
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/strcasecmp.c
No license file was found, but licenses were detected in source scan.

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AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
"")
AC_MSG_ERROR([ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.])
;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etrags)

# # Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
AC_MSG_CHECKING(for Exuberant Ctags etags)
if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
elsea
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)
#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)
#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
includedir='${prefix}/bind/include'
;;
esac
case "$libdir" in
'${prefix}/lib')
libdir='${prefix}/bind/lib'
;;
esac
#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/

")
;;

")
#
# Not all systems have dirname.
#
changequote(, , )
ac_dir=""echo $INSTALL | sed 's%/[\^%]+$%\%""
changequote([, ])

ac_prog="`echo $INSTALL | sed 's%.*%/%'`"

test "$ac_dir" = "$ac_prog" && ac_dir=

test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"

INSTALL="$ac_dir/$ac_prog"

;;

esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
  -*dec-osf*)
    CC="cc"
    ;;
  -*solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done
    # below might still find gcc.
    IFS="${IFS=	}"; ac_save_ifs="$IFS"; IFS="":
    for ac_dir in $PATH; do
      test -z "$ac_dir" && ac_dir=.
      case "$ac_dir" in
        /usr/ucb)
          # exclude
          ;;
        *)
          if test -f "$ac_dir/cc"; then
            CC="$ac_dir/cc"
            break
          fi
        esac
      done
    IFS="$ac_save_ifs"
    ;;
  -*hp-hpux*)
    CC="cc"
  *)
    if test -f "$ac_dir/cc"; then
      CC="$ac_dir/cc"
      break
    fi
  esac
  ;;
*)

for ac_dir in $PATH; do
  test -z "$ac_dir" && ac_dir=.
  case "$ac_dir" in
    /usr/ucb)
      # exclude
      ;;
    *)
      if test -f "$ac_dir/cc"; then
        CC="$ac_dir/cc"
        break
      fi
  esac
done
IFS="$ac_save_ifs"
::
*-*hp-hpux*)
CC="cc"
mips-sgi-irix*)
CC="cc"
::
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/socket.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
  yes)
    AC_MSG_CHECKING(if unistd.h defines fd_set)
    AC_TRY_COMPILE(
      [include <unistd.h>],
      [fd_set read_set; return (0);],
      [AC_MSG_RESULT(yes)
       ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
     ],
      [ACMSG_RESULT(no)
    case ac_cv_header_sys_select_h in
      yes)
        ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
      ::
      no)
      AC_MSG_ERROR([need either working unistd.h or sys/select.h])
      ::
esac
    ])
  ::
  no)
case ac_cv_header_sys_select_h in
  yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
  ::
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-grBuild ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
   WANT_IRS_GR_OBJS="\$(WANT_IRS_GR_OBJS)"
;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pwBuild ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
   WANT_IRS_PW_OBJS="\$(WANT_IRS_PW_OBJS)"
;;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nisBuild ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
   WANT_IRS_NIS="#define WANT_IRS_NIS 1"
   WANT_IRS_NIS_OBJS="\$(WANT_IRS_NIS_OBJS)"
   WANT_IRS_NISGR_OBJS="\$(WANT_IRS_NISGR_OBJS)"
   WANT_IRS_NISGR_OBJS="";;
  *) WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
yes)
WANT_IRS_NISPW_OBJS="$\{WANT_IRS_NISPW_OBJS}\"";
*)
WANT_IRS_NISPW_OBJS="";
esac
;;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="$\{WANT_IRS_DBPW_OBJS}\""
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
  use_randomdev="\$withval", use_randomdev="unspec")

case "$use_randomdev" in
  unspecified)
  case "$host" in
    *-openbsd*)
    devrandom=/dev/srandom
  ;;
  *)
    devrandom=/dev/random
  ;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
    AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$devrandom"),)
;;
yes)
AC_MSG_ERROR([-with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[    --disable-threads	disable multithreading])
case "$enable_threads" in
yes|'')
    AC_MSG_RESULT(yes)
    use_threads=true
;;
no)
    AC_MSG_RESULT(no)
    use_threads=false
;;
*)
    AC_MSG_ERROR([-enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
    case "$host" in
    *-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptime option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptime on NetBSD, use the ptl2 thread library (experimental)],
use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}
if test "X$use_ptl2" = "Xyes"
then
AC_MSG_RESULT(PTL2)
AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
CC=ptlgcc
else
if test ! -d $LOCALBASE/pthreads
then
AC_MSG_RESULT(none)
use_threads=false
fi
fi

if $use_threads
then
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
pkg="$LOCALBASE/pthreads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lpthread -lm -lgcc -lpthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
:: *
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
::
esac
fi
if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
   AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
   AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
   AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
   AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)
#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsd3.*|*-bsd4.0*)
AC_DEFINE(NEED_PTHREAD_INIT)
;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
AC_DEFINE(HAVE_LINUXTHREADS)
;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(POSIX_GETPWWID_R)
AC_DEFINE(POSIX_GETPWNAM_R)
AC_DEFINE(POSIX_GETGRGID_R)
AC_DEFINE(POSIX_GETGRNAM_R)

# UnixWare does things its own way.
# *
# *.*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)

if test "$GCC" = "Yes"; then
  case "$host" in
    *-freebsd*)
      CC="CC -pthread"
      CCOPT="$CCOPT -pthread"
      STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
    ;;
    *-openbsd*)
      CC="CC -pthread"
      CCOPT="$CCOPT -pthread"
    ;;
    *-solaris*)
      LIBS="LIBS -lthread"
    ;;
    *-ibm-aix*)
      STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
    ;;
  esac
else
  case $host in
    *-dec-osf*)
    CC="CC -pthread"
    CCOPT="$CCOPT -pthread"
    ;;
    *-solaris*)
    CC="CC -mt"
  esac

CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="$({WANT_IRS_THREADSGR_OBJS})"
WANT_IRS_THREADSPW_OBJS="$({WANT_IRS_THREADSPW_OBJS})"
WANT_IRS_THREADS_OBJS="$({WANT_IRS_THREADS_OBJS})"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
[USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS=""$({DAEMON_OBJS})" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP=""#undef NEED_STRSEP"]
,
[STRSEP_OBJS=""$[STRSEP_OBJS]" NEED_STRSEP=""#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_StrERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#
#
#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Yyes"; then
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
case $host in
*-*dec-osf*)
CC="$CC -std"
CCOPT="$CCOPT -std"
MKDEPCC=""$CC"
::
*-hp-hpux*)
CC="$CC -Ae -z"
# The version of the C compiler that constantly warns about
  # `const' as well as alignment issues is unfortunately not
  # able to be discerned via the version of the operating
  # system, nor does cc have a version flag.
case ""$CC +W 123 2>&1"" in
  *Unknown?option*)
STD_CWARNINGS="w1"
::
*)
# Turn off the pointlessly noisy warnings.
STD_CWARNINGS="w1 +W 474,530"
::
esac
CCOPT=""$CCOPT -Ae -z"
LIBS="W1,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk "\"BEGIN {colon=0; rec=""}; { for (i = 0 ; i < NF; i++)
  \{ if (colon && a[$i]) continue; if ($i == "\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec ":";
  colon = 1 continue; } if (length(rec) > 76) { print rec " \"; rec = "\" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
  } } } END {print rec}"' >>$TMP
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
::
*-sgi-irix*)
STD_CWARNINGS="fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/nss.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
::
*-solaris*)
MKDEPCFLAGS="-xM"
::
*-UnixWare*)
CC="$CC -w"
::
esac
fi
#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
case $host
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;
;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

# # NLS #
# AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

# -lxnet buys us one big porting headache... standards, gotta love 'em.
# # AC_CHECK_LIB(xnet, socket, ,
#   AC_CHECK_LIB(socket, socket)
#   AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
   mips-sgi-irix*)
     ;;
   *)
     AC_CHECK_LIB(d4r, gethostbyname_r)
     AC_CHECK_LIB(socket, socket)
     AC_CHECK_LIB(nsl, inet_ntoa)
     ;;
esac

# # Purify support #
# AC_MSG_CHECKING(whether to use purify)
# AC_ARG_WITH(purify,
#   [ --with-purify[=_PATH][use Rational purify],
#     use_purify="$withval", use_purify="no" ])

  case "$use_purify" in
    no)
      ;;

yes)
AC_PATH_PROG(purify_path, purify, purify)
;; *
) purify_path="$use_purify"
;; esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;; *
) *
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.
Please choose the proper path with the following command:

    configure --with-purify=PATH
)]
fi
;; esac

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
   [ --with-libtool use GNU libtool (following indented options supported)],
   use_libtool="$withval", use_libtool="no")

case $use_libtool in
yes)
AM_PROG_LIBTOOL
O=lo
A=la
LIBTOOL_MKDEP_SED='s;\o;\lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
;;
*)
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=

;;
esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
#
# IPv6
#
# AC_ARG_ENABLE(ipv6,
#    [ --enable-ipv6		use IPv6 [default=autodetect]]
#)
case "$enable_ipv6" in
  yes|''|autodetect)
AC_DEFINE(WANT_IPV6)
    ;;
no)
    ::
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>,
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
  found_ipv6=yes],
[AC_MSG_RESULT(no)
  found_ipv6=no])

# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
  [ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6],
  use_kame="$withval", use_kame="no" ]

  case "$use_kame" in
    no)
      ;;
    yes)
      kame_path=/usr/local/v6
      ;;
    *)
      kame_path="$use_kame"
      ;;
  esac

case "$use_kame" in
    no)
      AC_MSG_RESULT(no)
      ;;
    *)
      if test -f $kame_path/lib/libinet6.a; then
        AC_MSG_RESULT($kame_path/lib/libinet6.a)
        LIBS="-L$kame_path/lib -linet6 $LIBS"
      else
        AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

Please choose the proper path with the following command:

    configure --with-kame=PATH

)
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
# This is similar to the netinet6/in6.h issue.
#
# Now delve deeper into the suitability of the IPv6 support.

changequote({, })
case "$host" in
  *
    ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
    isc_netinet6in6_hack="#include <netinet/in6.h>"
  ;;
  *)
    ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
    isc_netinet6in6_hack=""
  ;;
esac
changequote([, ])

changequote({, })
case "$host" in
  *
    ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <netinet/in6.h>"
  ;;
  *)
    ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
    isc_netinetin6_hack=""
  ;;
esac

changequote({, })
case "$found_ipv6" in
  yes
    HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"
AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])

$HAVE_SIN6_SCOPE_ID=result

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netinet/in6.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo in6pkt; return (0);],
[AC_MSG_RESULT(yes)
PKTINFO6="#define PKTINFO6"
],
[AC_MSG_RESULT(no)
PKTINFO6="#define PKTINFO6 0"])
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack

[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"]
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"]

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack

[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"]
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"]
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_INET_ADDR6)
AC_SUBST(NEED_INET_ADDR6)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"].

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISCPLATFORM_NEEDPTON="#undef ISCPLATFORM_NEEDPTON"].

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"].

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
# case "$host" in
  *-dec-osf*)  # Turn on 4.4BSD style sa_len support.
    AC_DEFINE(_SOCKADDR_LEN);
  esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE(
  #include <sys/types.h>
  #include <sys/socket.h>
  [struct sockaddr sa; sa.sa_len = 0; return (0);].
  [AC_MSG_RESULT(yes)
   HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
  [AC_MSG_RESULT(no)
   HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsd[2345]*) have_minimum_ifreq=yes;;
  *-darwin*) have_minimum_ifreq=yes;;
  *-freebsd*) have_minimum_ifreq=yes;;
  *-lynxos*) have_minimum_ifreq=yes;;
  *-netbsd*) have_minimum_ifreq=yes;;
  *-next*) have_minimum_ifreq=yes;;
  *-openbsd*) have_minimum_ifreq=yes;;
  *-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
  yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(Have_minimum_ifreq)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"

case "$host" in
  *aix3.2*) PORT_DIR="port/aix32";;
  *aix4*) PORT_DIR="port/aix4";;
  *aux3*) PORT_DIR="port/aux3";;
  *bsd12*) PORT_DIR="port/bsdos2";;
  *bsd1*) PORT_DIR="port/bsdos";;
  *cygwin*) PORT_DIR="port/cygwin";;
  *darwin*) PORT_DIR="port/darwin";;
  *.osf*) PORT_DIR="port/decunix";;
  *.freebsd*) PORT_DIR="port/freebsd";;
  *hpux9*) PORT_DIR="port/hpux9";;
  *hpux10*) PORT_DIR="port/hpux10";;
  *hpux11*) PORT_DIR="port/hpux";;
  *irix*) PORT_DIR="port/irix";;
  *.linux*) PORT_DIR="port/linux";;
  *.lynxos*) PORT_DIR="port/lynxos";;
  *.mpe*) PORT_DIR="port/mpe";;
  *.netbsd*) PORT_DIR="port/netbsd";;
  *next*) PORT_DIR="port/next";;
  *.openbsd*) PORT_DIR="port/openbsd";;
  *.qnx*) PORT_DIR="port/qnx";;
  *.rhapsody*) PORT_DIR="port/rhapsody";;
  *.solaris2.[[01234]]*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
*.*-solaris2.*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*.*-solaris2.*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*.*-ultrix.*)
PORT_DIR="port/ultrix";;
*.*-sco-sysv*uw2.0.*)
PORT_DIR="port/unixware20";;
*.*-sco-sysv*uw2.1.*)
PORT_DIR="port/unixware212";;
*.*-sco-sysv*uw7.*)
PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE(
    [include <sys/types.h>
     include <sys/socket.h>],
    [struct msghdr msg; msg.msg_flags = 0; return (0);],
    [AC_MSG_RESULT(4.4BSD)
     ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
    [AC_MSG_RESULT(4.3BSD)
     ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE(
    [include <sys/types.h>
     include <netinet/in.h>],
    [in_port_t port = 25; return (0);],
    [AC_MSG_RESULT(yes)
     ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
    [AC_MSG_RESULT(no)
     ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE(
    [include <netdb.h>],
    [struct addrinfo a; return (0);],
    [AC_MSG_RESULT(yes)
     AC_DEFINE(HAVE_ADDRINFO)],
    [AC_MSG_RESULT(no)])
AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE(
    [include <netdb.h>],
    [int i = sethostent(0); return(0);],
    [AC_MSG_RESULT(yes)
     AC_DEFINE(HAVE_ADDRRINFO)],
    [AC_MSG_RESULT(no)])
AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE(
#include <netdb.h>,
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE(
#include <netdb.h>,
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE(
#include <netdb.h>,
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE(
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);,
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE(
#include <netdb.h>,
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_H_ERRNO="#define ISC_LWRES_H_ERRNO 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_H_ERRNO="#undef ISC_LWRES_H_ERRNO"])
AC_SUBST(ISC_LWRES_H_ERRNO)
[AC_MSG_RESULT(yes)]
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)]
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1")] AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
    [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
    [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT 1"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_IFLIST_SYSCTL)],
[AC_MSG_RESULT(no)])
# Check for some other useful functions that are not ever-present.

AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSERROR_LIST="#undef USE_SYSERROR_LIST"],
    [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
    [AC_MSG_RESULT(l)]
    ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"',
    [AC_MSG_RESULT(ll)]
    ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"',
    [AC_MSG_RESULT(default ll)]
    ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"')
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

# Security Stuff

AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

# for accept, recvfrom, getpeername etc.

AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <sys/socket.h>
    int accept(int, struct sockaddr *, socklen_t *);
),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <sys/socket.h>
    int accept(int, struct sockaddr *, unsigned int *);
),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <sys/socket.h>
    int accept(int, struct sockaddr *, unsigned long *);
),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE(
    #include <sys/types.h>
    #include <sys/socket.h>
    int accept(int, struct sockaddr *, long *);
),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
    #include <unistd.h>
    int
    getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
    }
),
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
) AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[ #undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) {} }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r(unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
],
[return (0)],
# undef_REENTRANT
#define REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"

NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#define NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA"

case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
 #undef __USE_MISC
 #define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
],[return (0);],
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#define NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
 #define __REENTRANT
 #undef __USE_MISC
#define __USE_MISC

Open Source Used In IOSXE Releases 17.7.1-RMs 7217
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
] ,[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
),
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);
] ,[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
] ,[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
] , (return (0)); ,[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
)
).
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
  int buflen) {}
] , [return (0)]; ,[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
).

GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"

Open Source Used In IOSXE Releases 17.7.1-RMs 7219
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT void"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
 #undef __USE_MISC
 #define __USE_MISC
 #include <netdb.h>
 struct hostent *gethostbyname_r
 (const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }]
), [return (0);],
[
 HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
 HOST_R_BAD="#define HOST_R_BAD NULL"
 HOST_R_COPY="#define HOST_R_COPY buf, buflen"
 HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
 HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
 HOST_R_OK="#define HOST_R_OK hptr"
 HOST_R_RETURN="#define HOST_R_RETURN struct hostent **"
 HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
 HOSTENT_DATA="#undef HOSTENT_DATA"
]
)
AC_TRY_COMPILE(
[ #undef __USE_MISC
 #define __USE_MISC
 #include <netdb.h>
 int gethostbyname_r(const char *name,
 struct hostent *result,
 struct hostent_data *hdptr);
[..]

HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
",
AC_TRY_COMPILE(
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int gethostbyname_r (const char *,
       struct hostent *,
       char *, size_t,
       struct hostent **,
       int *");
),
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
",
));
 HOST_R_ARGS="#define HOST_R_ARGS char *buf, buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent **"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
  #undef _REENTRANT
  #define _REENTRANT
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  int endhostent_r(struct hostent_data *buffer);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

},
AC_TRY_COMPILE({
  #undef _REENTRANT
  #define _REENTRANT
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  extern void endhostent_r(struct hostent_data *ht_data);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

},
AC_TRY_COMPILE({
  #undef _REENTRANT
  #define _REENTRANT
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  extern void endhostent_r(void);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="/undef HOST_R_ENT_ARGS /*empty*/"

),
)
)
)

HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="/undef HOST_R_ENT_ARGS /*empty*/"
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE(
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"])
AC_TRY_COMPILE(
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"])
AC_TRY_COMPILE(
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void sethostent_r (int);
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"])
)
)
)
.
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <pwd.h>
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
AC_MSG_RESULT(no)
)

AC_TRY_COMPILE(
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE(
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
 underwear <sys/types.h>
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
[return (0);],
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {} 
]
)

AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r( char **m, char **u, char **d, void **);
]
)

AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char *, char *, char **, void **);
]
)

NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
}

NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
}

NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
  case "$host" in
    *bsd*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
::
* )
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
::
esac
]
.
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))
AC_CHECK_FUNC(getprotoent_r, AC_TRY_COMPILE(
    [ #undef __USE_MISC
     #define __USE_MISC
     #include <netdb.h>
    struct protoent *getprotoent_r(struct protoent *result,
       char *buffer, int buflen) {} ]
    , [return (0);]
    ,
    [
      PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
      PROTO_R_BAD="#define PROTO_R_BAD NULL"
      PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
      PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
      PROTO_R_OK="#define PROTO_R_OK pptr"
      PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
      PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
    ]
    ,
    AC_TRY_COMPILE(
      [ #undef __USE_MISC
     #define __USE_MISC
     #include <netdb.h>
    int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);
    ]
      , [return (0);]
      ,
      [
        PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
        PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
        PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
        PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
        PROTO_R_OK="#define PROTO_R_OK 0"
        PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
        PROTO_R_RETURN="#define PROTO_R_RETURN int"
      ]
      ,
      )
      )
      )
      ,
      PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
      PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
 #undef _REENTRANT
#define _REENTRANT
 #undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
]
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
)

PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
 #undef _REENTRANT
#define _REENTRANT
 #undef __USE_MISC
#define __USE_MISC

#include <netdb.h>
void setprotoent_r__P(int);
]

PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"

AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,
]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"

,
)

PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)

)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)
AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
 #include <pwd.h>
 void endpwent_r(FILE **pwfp);
],
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE(
[
 #include <pwd.h>
 void setpwent_r(FILE **pwfp);
],
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE(
[
 #include <pwd.h>
 int setpwent_r(FILE **pwfp);
],
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
) )
)
)
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)
AC_CHECK_FUNC(getpwnam_r, AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r, AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r, AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
], [return (0);],
]
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
], [return (0);],
]
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS" SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servant *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
    [
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    void endservent_r(void);
    ]
    ,
    ,
    
    [
    SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
    SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
    SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
    ]
    ,
    )
)
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
    [
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    void setservent_r(int);
    ]
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[  
#define _REENTRANT
#undef _REENTRANT
#define __USE_MISC
#undef __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]  
,,
[
INNETGR_ARGS="#undef INNETGR_ARGS"
]  
,
AC_TRY_COMPILE(
[  
#define _REENTRANT
#undef _REENTRANT
#define __USE_MISC
#undef __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]  
,,
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]  
,
))

AC_TRY_COMPILE(
[  


```c
#define _REENTRANT
#undef _REENTRANT
#define __USE_MISC
#undef __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);

void setnetgrent(char *);

AC_TRY_COMPILE(
#define _REENTRANT
#undef _REENTRANT
#define __USE_MISC
#undef __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);

AC_SUBST(SETNETGRENT_ARGS)

AC_SUBST(INNETGR_ARGS)

# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?

# AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

```

```bash
case "$host" in
  *-bsdi3.1*)
    hack_shutup_sputaux=yes
  ;;
  *-bsd4.0*)
    hack_shutup_sigwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init_macros=yes
```
case "$hack_shutup_pthreadonceinit" in
  yes)
    #
    # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
    #
    ISC_PLATFORM_BRACTHREADONCEINIT="#define ISC_PLATFORM_BRACTHREADONCEINIT 1"
  ;;
  esac

case "$hack_shutup_sigwait" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning for sigwait().
    #
    AC_DEFINE(SHUTUP_SIGWAIT)
  ;;
  esac

case "$hack_shutup_sputaux" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning from <stdio.h>.
    #
    AC_DEFINE(SHUTUP_SPUTAUX)
  ;;
  esac

case "$hack_shutup_stdargcast" in
  yes)
    #
    # Shut up a -Wcast-qual warning from va_start().
    #
    AC_DEFINE(SHUTUP_STDARG_CAST)
  ;;
  esac

case "$hack_shutup_in6addr_init_macros" in
  yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
::
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/.../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(  
make/rules  
make/mkdep  
make/includes  
Makefile  
bsd/Makefile  
dst/Makefile  
included/Makefile  
inet/Makefile  
irs/Makefile  
isc/Makefile  
nameser/Makefile  
port_after.h  
port_before.h  
resolv/Makefile  
port/Makefile  
$[PORT_DIR]/Makefile  
$[PORT_INCLUDE]/Makefile  
)

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/events.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rddata/in_1/aaaa_28.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rddata/generic/x25_19.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rbt.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/setenv.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/setenv.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/setenv.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/setenv.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/bsd/setenv.c

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 */

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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*
***** Platform-dependent defines.
*****/

///
*** Network.
***/

/*/ Define if this system needs the <netinet/in6.h> header file included
*/ for full IPv6 support (pretty much only UnixWare).
*/ @ISC_PLATFORM_NEEDINETINET6H@

/*/ Define if this system needs the <netinet6/in6.h> header file included
*/ to support in6_pkinfo (pretty much only BSD/OS).
*/ @ISC_PLATFORM_NEEDINET6IN6H@

/*/ If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
*/ will be defined.
*/ @ISC_PLATFORM_HAVESALEN@

/*/ If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
*/
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in6_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@
/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCPY@

/*
* If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_ * macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/***
 *** Printing.
 ***/

/*
* If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
* will be defined.
*/
@ISC_PLATFORM_NEEDVSNPRINTF@
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@ISC_PLATFORM_NEEDSPRINTF@

/*
* The printf format string modifier to use with isc_uint64_t values.
*/
@ISC_PLATFORM_QUADFORMAT@

/*
* Defined if we are using threads.
*/
@ISC_PLATFORM_USETHREADS@

/*
* Defined if unistd.h does not cause fd_set to be delared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*
* Define if the system has struct if_laddrconf which is a extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
* Tell emacs to use C mode for this file.
*
* Local Variables:
* mode: c
* End:
*/
#endif /* ISC_PLATFORM_H */

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst_parse.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/hmac_link.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/symtab.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/inet_ntop.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/symtab.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl_pw.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/zonekey.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/refcount.h
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* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was  
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*  
* Equivalent code is available from RSA Data Security, Inc.  
* This code has been tested against that, and is equivalent,  
* except that you don't need to include two pages of legalese  
* with every copy.  
*  
* To compute the message digest of a chunk of bytes, declare an  
* MD5Context structure, pass it to MD5Init, call MD5Update as  
* needed on buffers full of bytes, and then call MD5Final, which  
* will fill a supplied 16-byte array with the digest.  
*/

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/secalg.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/getaddresses.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
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<funcdef>
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<paramdef>lwres_context_t **contextp</paramdef>
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<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recv_len</paramdef>
</funcprototype>
</funcsynopsis>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>,
a pointer to a
<type>lwres_context_t</type>
pointer. This
<type>lwres_context_t</type>
pointer must initially be NULL, and is modified
to point to the newly created
<type>lwres_context_t</type>.

</para>
<para>
When the lightweight resolver needs to perform dynamic memory
allocation, it will call
<parameter>malloc_function</parameter>
to allocate memory and
<parameter>free_function</parameter>
to free it. If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL, memory is allocated using
.Xr malloc 3
and
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter>
and a non-NULL
<parameter>free_function</parameter>
or vice versa.
is passed as the first parameter to the memory allocation functions.
If
and
are NULL,
is unused and should be passed as NULL.

Once memory for the structure has been allocated, it is initialized using
and returned via

destroying a

closing its socket.
is a pointer to a pointer to the context that is to be destroyed. The pointer will be set to NULL when the context has been destroyed.
The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests. This serial number is controlled using
and
sets the serial number for context
to

increments the serial number and returns the previous value.
Memory for a lightweight resolver context is allocated and freed using 
<function>lwres_context_allocmem()</function> and  
<function>lwres_context_freemem()</function>.  
These use whatever allocations were defined when the context was 
created with  
<function>lwres_context_create()</function>.  
<function>lwres_context_allocmem()</function> allocates  
<parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage.  
<function>lwres_context_freemem()</function> frees  
<parameter>len</parameter> bytes of space starting at location  
<parameter>mem</parameter>.  

<function>lwres_context_sendrecv()</function> performs I/O for the context  
<parameter>ctx</parameter>.  

Data are read and written from the context’s socket.  
It writes data from  
<parameter>sendbase</parameter> &mdash; typically a lightweight resolver query packet &mdash; and waits for a reply which is copied to the receive buffer at  
<parameter>recvbase</parameter>.  

The number of bytes that were written to this receive buffer is returned in  
<parameter>*recvd_len</parameter>.  

<para>  
<refsect1>  
<title>RETURN VALUES</title>  
<para>  
<function>lwres_context_create()</function> returns  
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the  
<type>struct lwres_context</type> could not be allocated.
Successful calls to the memory allocator function `lwres_context_allocmem()` return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.

Successful calls to the memory allocator function `lwres_context_sendrecv()` is returned when completes successfully. Successful calls to the memory allocator function `lwres_context_sendrecv()` is returned when times out waiting for a response.

`LWRES_R_SUCCESS` is returned when `lwres_context_sendrecv()` completes successfully. `LWRES_R_IOERROR` is returned if an I/O error occurs and `LWRES_R_TIMEOUT` is returned if `lwres_context_sendrecv()` times out waiting for a response.

**SEE ALSO**

- `lwres_conf_init` [manvolnum]3
- `malloc` [manvolnum]3
- `free` [manvolnum]3

---

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*/

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdtype/generic/dlv_65323.h
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/*
 * SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
 * 100% Public Domain
 *
 * Test Vectors (from FIPS PUB 180-1)
 * "abc"
 * A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
 * "abcdedcedeefgefghfghighhijjikklmklmnlmnomnopnopq"
 * 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
 * A million repetitions of "a"
 * 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
 */

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dlv_65323.c

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"
" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_context.3
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/irp_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h
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MessageIdTypeDef=DWORD
LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1.

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1.

Found in path(s):
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/win32/bindevt/bindevt.mc
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/ev_streams.c

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/generic/tkey_249.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/nsec.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/message.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdataset.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/nocache.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/ifiter_sysctl.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/cache.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/dispatch.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/view.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/net.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/net.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/dnssec.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/master.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sig_24.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/stat.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
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"
" Os OPERATING_SYSTEM [version/release]
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" used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf/stderr type diagnostics)
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/ev_connects.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/eventlib.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/eventlib.c

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl_nw.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/nis_gr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl_gr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl_sv.c

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<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsis>
<funcprototype>
void
<function>lwres_conf_init</function>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
void
<function>lwres_conf_clear</function>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
lwres_result_t
<function>lwres_conf_parse</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>
<funcprototype>
lwres_result_t
<function>lwres_conf_print</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type> structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by that
<type>lwres_conf_t</type> structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file
<parameter>filename</parameter> and parses it to initialise the resolver context
<parameter>ctx</parameter>’s
<type>lwres_conf_t</type> structure.
</para>
<para>
<function>lwres_conf_print()</function>
prints the
<type>lwres_conf_t</type> structure for resolver context
<parameter>ctx</parameter> to the
<type>FILE</type>
<parameter>fp</parameter>.
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_conf_parse()</function>

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returns
<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>. It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect
resolver statements.
</para>
<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a
numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>. 
</para>
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

Found in path(s):
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_config.docbook
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"$Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $"

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/irp_ho.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/irp_sv.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/hmac_link.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/dst_internal.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/support.c

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isccfg/include/isccfg/cfg.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/pthreads/mutex.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/lwres_gnba.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/os.c
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 * msg_eventlib.c - Error messages for evlib
 *
 * January 2007, Vikram Visweswaraiah
 *
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/bind/nameser/ns_verify.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_findzonecut.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_debug.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/include/isc/irpmarshall.h
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<!-- $Id: lwres_getaddrinfo.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<refentryinfo>
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</refentryinfo>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_getaddrinfo</refname>
<refname>lwres_freeaddrinfo</refname>
<refpurpose>socket address structure to host and service name</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsis>
<funcprototype>
<int>
#include &lt;lwres/netdb.h&gt;
</funcdef>

int
<function>lwres_getaddrinfo</function>
<meta>
<paramdef>const char *hostname</paramdef>
<paramdef>const char *servname</paramdef>
<paramdef>const struct addrinfo *hints</paramdef>
<paramdef>struct addrinfo **res</paramdef>
</funcdef>

void
<function>lwres_freeaddrinfo</function>
<meta>
<paramdef>struct addrinfo *ai</paramdef>
</funcdef>
</funcprototype>
</funcsynopsis>
The operating system does not provide a
<type>struct addrinfo</type>,
the following structure is used:

<programlisting>
struct addrinfo {
    int    ai_flags;       /* AI_PASSIVE, AI_CANONNAME */
    int    ai_family;      /* PF_xxx */
    int    ai_socktype;    /* SOCK_xxx */
    int    ai_protocol;    /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t ai_addrlen;     /* length of ai_addr */
    char   *ai_canonname;  /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>

<para>

<refsect1>
<title>DESCRIPTION</title>
<para>
function lwres_getaddrinfo()</function> is used to get a list of IP addresses and port numbers for host <parameter>hostname</parameter> and service <parameter>servname</parameter>. The function is the lightweight resolver's implementation of <function>getaddrinfo()</function> as defined in RFC2133. <parameter>hostname</parameter> and <parameter>servname</parameter> are pointers to null-terminated strings or <type>NULL</type>.<parameter>hostname</parameter> is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address. <parameter>servname</parameter> is either a decimal port number or a service name as listed in <filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>


is an optional pointer to a
\<type\>struct addrinfo</type>.
This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
\<parameter\>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term>
<li>\<para\>The protocol family that should be used.
\When
<constant>ai_family</constant>
is set to
\<type\>PF_UNSPEC</type>,
it means the caller will accept any protocol family supported by the
operating system.
</para></listitem></varlistentry>
<varlistentry><term><constant>ai_socktype</constant></term>
<li>\<para\>denotes the type of socket —
\<type\>SOCK_STREAM</type>,
\<type\>SOCK_DGRAM</type>
or
\<type\>SOCK_RAW</type>
&mdash; that is wanted.
\When
<constant>ai_socktype</constant>
is zero the caller will accept any socket type.
</para></listitem></varlistentry>
<varlistentry><term><constant>ai_protocol</constant></term>
<li>\<para\>indicates which transport protocol is wanted: IPPROTO_UDP or
IPPROTO_TCP.
\If
<constant>ai_protocol</constant>
is zero the caller will accept any protocol.
</para></listitem></varlistentry>
<varlistentry><term><constant>ai_flags</constant></term>
<li>\<para\>Flag bits.
If the `<type>AI_CANONNAME</type>` bit is set, a successful call to
`<function>lwres_getaddrinfo()</function>` will return a null-terminated string containing the canonical name
of the specified hostname in
`<constant>ai_canonname</constant>` of the first
`<type>addrinfo</type>` structure returned.
Setting the
`<type>AI_PASSIVE</type>` bit indicates that the returned socket address structure is intended
for used in a call to
`<citerefentry>
<citerefentrytitle>bind</citerefentrytitle><manvolnum>2</manvolnum>
</citerefentry>.`

In this case, if the hostname argument is a
`<type>NULL</type>` pointer, then the IP address portion of the socket
address structure will be set to
`<type>INADDR_ANY</type>` for an IPv4 address or
`<type>IN6ADDR_ANY_INIT</type>` for an IPv6 address.

When
`<constant>ai_flags</constant>` does not set the
`<type>AI_PASSIVE</type>` bit, the returned socket address structure will be ready
for use in a call to
`<citerefentry>
<citerefentrytitle>connect</citerefentrytitle><manvolnum>2</manvolnum>
</citerefentry>`,
for a connection-oriented protocol or
`<citerefentry>
<citerefentrytitle>sendto</citerefentrytitle><manvolnum>2</manvolnum>
</citerefentry>`,
or
if a connectionless protocol was chosen. The IP address portion of the socket address structure will be set to the loopback address if <parameter>hostname</parameter> is a <type>NULL</type> pointer and <type>AI_PASSIVE</type> is not set in <constant>ai_flags</constant>. If <constant>ai_flags</constant> is set to <type>AI_NUMERICHOST</type> it indicates that <parameter>hostname</parameter> should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>. After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type>
Each `struct addrinfo` in this list can be processed by following the `ai_next` pointer, until a `NULL` pointer is encountered. The three members `ai_family`, `ai_socktype`, and `ai_protocol` in each returned `addrinfo` structure contain the corresponding arguments for a call to the `socket` function. For each `addrinfo` structure in the list, the `ai_addr` member points to a filled-in socket address structure of length `ai_addrlen`.

All of the information returned by `lwres_getaddrinfo()` is dynamically allocated: the `addrinfo` structures, and the socket address structures and canonical host name strings pointed to by the `addrinfo` structures. Memory allocated for the dynamically allocated structures created by a successful call to `lwres_getaddrinfo()` is released by `lwres_freeaddrinfo()`. `ai` is a pointer to a `struct addrinfo` created by a call to `lwres_getaddrinfo()`.
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<refentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3
</manvolnum>
</refentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.

</para>
</refsect1>
</refsect1>
<title>SEE ALSO</title>
<para>
<refentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
RFC2133</refentry>
</para>
<refentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</refentry>.
Found in path(s):

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.docbook

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/context.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/srv.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/stack.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/keytable.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres(assert_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/inetdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/inetdb.h
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"$Id: lwres_noop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $"

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst_api.c
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lwres_getipnodebyname
lwres_getipnodebyaddr
lwres_freehostent
lightweight resolver nodename / address translation API
#include <lwres/netdb.h>

struct hostent *
lwres_getipnodebyname(const char *name, int af, int flags, int *error_num);

struct hostent *
lwres_getipnodebyaddr(const void *src, size_t len, int af, int *error_num);

void

These functions perform thread safe, protocol independent nodename-to-address and address-to-nodename translation as defined in RFC2553.

They use a

```c
struct hostent {
    char    *h_name;        /* official name of host */
    char    **h_aliases;    /* alias list */
    int     h_addrtype;     /* host address type */
    int     h_length;       /* length of address */
    char    **h_addr_list;  /* list of addresses from name server */
};
#define h_addr  h_addr_list[0]  /* address, for backward compatibility */
```

The members of this structure are:

- **h_name**: The official (canonical) name of the host.
- **h_aliases**: A NULL-terminated array of alternate names (nicknames) for the host.
- **h_addrtype**: The address type (for example, AF_INET for IPv4 addresses).
- **h_length**: The length of the address type.
- **h_addr_list**: A NULL-terminated list of addresses from the name server.
The type of address being returned - usually `<type>PF_INET</type>` or `<type>PF_INET6</type>`.

The length of the address in bytes.

A `NULL` terminated array of network addresses for the host. Host addresses are returned in network byte order.

The `FLAGS` parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned. The flag bits are:

This is used with an `af` parameter of `AF_INET6`, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.
<para>This is used with an</para>
<parameter>af</parameter> of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.</para>
<para>Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.</para>
<para>This default sets the</para>
<constant>AI_V4MAPPED</constant> and <constant>AI_ADDRCONFIG</constant> flag bits.</para>
<para>performs a reverse lookup of address</para>
<parameter>src</parameter> which is</para>
<parameter>len</parameter> bytes long.</para>
<parameter>af</parameter> denotes the protocol family, typically</para>
<type>PF_INET</type> or</para>
<type>PF_INET6</type>.
<function>lwres_freehostent()</function> releases all the memory associated with the  
<type>struct hostent</type> 
pointer 
<parameter>he</parameter>. 

Any memory allocated for the  
<constant>h_name</constant>,  
<constant>h_addr_list</constant> and 
<constant>h_aliases</constant> 
is freed, as is the memory for the  
<type>hostent</type>  
structure itself. 
</para> 
</refsect1> 
<refsect1> 
<title>RETURN VALUES</title> 
<para> 
If an error occurs,  
<function>lwres_getipnodebyname()</function> and  
<function>lwres_getipnodebyaddr()</function> 
set  
<parameter>*error_num</parameter> 
to an appropriate error code and the function returns a  
<type>NULL</type>  
pointer. 
The error codes and their meanings are defined in  
<filename>&lt;lwres/netdb.h&gt;</filename>:  
<variablist> 
<varlistentry><term>&lt;constant&gt;HOST_NOT_FOUND&lt;/constant&gt;</term> 
</varlistentry> 
<varlistentry><term>&lt;constant&gt;NO_ADDRESS&lt;/constant&gt;</term> 
</varlistentry> 
<para>  
No such host is known.  
</para> 
</varlistentry> 
<varlistentry><term>&lt;constant&gt;TRY_AGAIN&lt;/constant&gt;</term> 
</varlistentry> 
<para>  
The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.  
</para>
A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

An unexpected failure occurred, and retrying the request is pointless.

translates these error codes to suitable error messages.

SEE ALSO

RFC2553, lwres_hstrerror, lwres, lwres_gethostent, lwres_getaddrinfo, lwres_getnameinfo,
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

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* eventlib.em
*
* Eventlib error message compiler input file
*
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*/

/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
      "int" dispatch_time "event dispatch time";
      "int" elapsed_time "event elapsed time";
      "int" hog_detected "event hog detected";
      "int" set_count "event set count since dispatch"
    }

    explanation "Eventlib historical summary for detected hog.";

    action
      "This event summary is part of a CPUHOG or TIMEHOG error,"
      "providing diagnostic details useful to engineering."
      "Save this summary message along with the HOG error."
    
    tac_details
      "Eventlib historical summary for detected hog."
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
      "int" set_count "element set count";
      "char **" position_string "event call type";
      "char **" position_string "event condition";
      "int" set_time "element set time";
      "int" unset_time "element unset time";
      "int" hog_check "element hog check result";
      "int" caller "call in event callback return address"
    }

    explanation "Eventlib historical element for detected hog.";

action
"This event element is part of a CPUHOG or TIMEHOG error,"
"providing diagnostic details useful to engineering."
"Save all element messages along with the HOG error."

tac_details
"Eventlib historical element for detected hog."
}

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<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refmiscinfo>BIND9</refmiscinfo>

<refnamediv>
<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsisinfo>

<funcprototype>
<funcdef>
lwres_result_t
 lwres_gabnrequest_render
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
 lwres_gabnresponse_render
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
 lwres_gabnrequest_parse
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
 lwres_gabnresponse_parse
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
</funcprototype>


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These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode. One render function converts a getaddrbyname request structure — `lwres_gabnrequest_t` — to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure. Another render function converts the getaddrbyname response structure — `lwres_gabnresponse_t` — to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in `<lwres/lwres.h>`. They are shown below.

```c
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
```
typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                  **aliases;
    lwres_uint16_t        realnamelen;
    lwres_uint16_t          *aliaslen;
    lwres_addrlist_t       addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gabnresponse_t;
<programlisting>
</para>
</para>
</function>lwres_gabnrequest_render()</function>
uses resolver context
<parameter>ctx</parameter>
to convert getaddrbyname request structure
<parameter>req</parameter>
to canonical format.
The packet header structure
<parameter>pkt</parameter>
is initialised and transferred to
buffer
<parameter>b</parameter>.

The contents of
<parameter>*req</parameter>
are then appended to the buffer in canonical format.
<function>lwres_gabnresponse_render()</function>
performs the same task, except it converts a getaddrbyname response structure
<type>lwres_gabnresponse_t</type>
to the lightweight resolver's canonical format.
</para>
</para>
</function>lwres_gabnrequest_parse()</function>
uses context
<parameter>ctx</parameter>
to convert the contents of packet
<parameter>pkt</parameter>
to a
Buffer
<parameter>b</parameter> provides space to be used for storing this structure. When the function succeeds, the resulting <type>lwres_gabnrequest_t</type> is made available through <parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function> offers the same semantics as <function>lwres_gabnrequest_parse()</function> except it yields a <type>lwres_gabnresponse_t</type> structure.
</para>
<para>
<function>lwres_gabnresponse_free()</function> and <function>lwres_gabnrequest_free()</function> release the memory in resolver context <parameter>ctx</parameter> that was allocated to the <type>lwres_gabnresponse_t</type> or <type>lwres_gabnrequest_t</type> structures referenced via <parameter>structp</parameter>. Any memory associated with ancillary buffers and strings for those structures is also discarded.
</para>
</refsect1>
</refsect1>
<title>RETURN VALUES</title>
<para>
The getaddrbyname opcode functions <function>lwres_gabnrequest_render()</function>, <function>lwres_gabnrequest_parse()</function> and <function>lwres_gabnresponse_parse()</function> all return <errorcode>LWRES_R_SUCCESS</errorcode> on success. They return <errorcode>LWRES_R_NOMEMORY</errorcode>
if memory allocation fails.
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> is returned if the available space in the buffer
<parameter>b</parameter> is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type> and
<type>lwres_gabnresponse_t</type> structures.
<function>lwres_gabnrequest_parse()</function> and
<function>lwres_gabnresponse_parse()</function> will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer is not empty after decoding the received packet.
These functions will return
<errorcode>LWRES_R_FAILURE</errorcode> if
<structfield>pktflags</structfield> in the packet header structure
<type>lwres_lwpacket_t</type> indicate that the packet is not a response to an earlier query.
</para>
</refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</citerefentry>
</refentry>
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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

 ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H 1

 /***
 ***** Platform-dependent defines.
 *****/

 /***
 *** Network.
 /***

 /*
 * Define if this system needs the <netinet/in6.h> header file for IPv6.
 */
@LWRES_PLATFORM_NEEDNETINET6H@

 /*
 * Define if this system needs the <netinet6/in6.h> header file for IPv6.
/*
 * @LWRES_PLATFORM_NEEDINET6IN6H@
 */

/*
 * If sockaddr on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
 * will be defined.
 *
 * @LWRES_PLATFORM_HAVESALEN@
 */

/*
 * If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
 * will be defined.
 *
 * @LWRES_PLATFORM_HAVEIPV6@
 */

/*
 * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 *
 * @LWRES_PLATFORM_NEEDIN6ADDRANY@
 */

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 *
 * @LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@
 */

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 *
 * @LWRES_PLATFORM_HAVEINADDR6@
 */

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 *
 * @LWRES_PLATFORM_NEEDSYSSELECTH@
 */

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 *
 * @LWRES_PLATFORM_USEDECLSPEC@
 */

/*
 * Defined this system needs vsnprintf() and snprintf().
 *
 * @LWRES_PLATFORM_NEEDVSNPRINTF@
 */
/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */

@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif

#endif /* LWRES_PLATFORM_H */

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/md5_dgst.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/md5_locl.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/dst/md5.h

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-->

<!-- $Id: lwres_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_gethostbyname</refname>
<refname>lwres_gethostbyname2</refname>
<refname>lwres_gethostbyaddr</refname>
<refname>lwres_gethostent</refname>
<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>

<funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyname</function></funcdef>
</funcprototype>

<funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyname2</function></funcdef>
</funcprototype>

<funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyaddr</function></funcdef>
</funcprototype>

<funcprototype>
<funcdef>
void
function>lwres_gethostent</function></funcdef>
</funcprototype>

<funcprototype>
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</funcprototype>

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function>lwres_gethostbyname_r</function></funcdef>
</funcprototype>

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<funcdef>
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<funcprototype>
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</funcprototype>

<funcprototype>
<funcdef>
void
function>lwres_sethostent_r</function></funcdef>
</funcprototype>

<funcprototype>
<funcdef>
void
function>lwres_endhostent_r</function></funcdef>
</funcprototype>
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent  *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent  *
<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>

These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard functions provided by most operating systems.

They use a

```c
struct hostent {
    char    *h_name;        /* official name of host */
    char    **h_aliases;    /* alias list */
    int     h_addrtype;     /* host address type */
    int     h_length;       /* length of address */
    char    **h_addr_list;  /* list of addresses from name server */
};
#define h_addr  h_addr_list[0]  /* address, for backward compatibility */
```

The members of this structure are:

The official (canonical) name of the host.

A NULL-terminated array of alternate names (nicknames) for the host.
The type of address being returned —

- `<type>PF_INET</type>`
- or
- `<type>PF_INET6</type>`.

The length of the address in bytes.

A `<type>NULL</type>` terminated array of network addresses for the host. Host addresses are returned in network byte order.

For backward compatibility with very old software,

- `<constant>h_addr</constant>` is the first address in
- `<constant>h_addr_list</constant>`.

And

- `<function>lwres_gethostent_r()</function>`,
- `<function>lwres_sethostent()</function>`,
- `<function>lwres_endhostent()</function>`,
- `<function>lwres_gethostent_r()</function>`,
- `<function>lwres_sethostent_r()</function>`

provide iteration over the known host entries on systems that provide such functionality through facilities like

- `<filename>/etc/hosts</filename>`

or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.
<para>
<function>lwres_gethostbyname()</function> and <function>lwres_gethostbyname2()</function> look up the hostname <parameter>name</parameter>. <function>lwres_gethostbyname()</function> always looks for an IPv4 address while <function>lwres_gethostbyname2()</function> looks for an address of protocol family <parameter>af</parameter>: either <type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.
</para>

Reverse lookups of addresses are performed by <function>lwres_gethostbyaddr()</function>. <parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. <function>lwres_gethostbyname_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>*error</parameter>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyname_r()</function>. <parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyname_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <type>struct hostent</type> it created.

Reverse lookups of addresses are performed by <function>lwres_gethostbyaddr_r()</function>. <parameter>addr</parameter> is a buffer of length <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. If an error occurs, the error code is returned in <parameter>*error</parameter>. The other function parameters are identical to those in <function>lwres_gethostbyname_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to
<function>lwres_gethostbyaddr_r()</function>,
<parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyaddr_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <function>struct hostent()</function> it created.

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
The functions <function>lwres_gethostname()</function>, <function>lwres_gethostname2()</function>, <function>lwres_gethostbyaddr()</function>, and <function>lwres_gethostent()</function> return NULL to indicate an error. In this case the global variable <type>lwres_h_errno</type> will contain one of the following error codes defined in <filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>
</varlistentry>
</variablelist>

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
<para>
The host or address was not found.
</para>
</listitem>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<para>
A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.
</para>
</listitem>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<para>
A non-recoverable error occurred.
</para>
</listitem>
<varlistentry><term><constant>NO_DATA</constant></term>
</listitem>
The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

 lwres_hstrerror translates these error codes to suitable error messages.

Successful calls to lwres_gethostbyname_r() and lwres_gethostbyaddr_r() return resbuf, a pointer to the struct hostent that was initialised by these functions. They return NULL if the lookups fail or if buf was too small to hold the list of addresses and names referenced by the h_name, h_aliases, and h_addr_list elements of the struct hostent. If buf was too small, both lwres_gethostbyname_r() and lwres_gethostbyaddr_r() set the global variable errno to ERANGE.
<refentrytitle>gethostent</refentrytitle> <manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getipnode</refentrytitle> <manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle> <manvolnum>3</manvolnum>
</citerefentry>

<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>, <function>lwres_gethostbyname2()</function>, <function>lwres_gethostbyaddr()</function> and <function>lwres_endhostent()</function> are not thread safe; they return pointers to static data and provide error codes through a global variable. Thread-safe versions for name and address lookup are provided by <function>lwres_gethostbyname_r()</function>, and <function>lwres_gethostbyaddr_r()</function> respectively.
</para>

<para>
The resolver daemon does not currently support any non-DNS name services such as <filename>/etc/hosts</filename> or <type>NIS</type>, consequently the above functions don't, either.
</para>
</refsect1>
</refentry>

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/memcluster.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/port/cygwin/include/ansi_realloc.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/heap.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/include/isc/list.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/include/isc/heap.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/include/isc/memcluster.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/assertions.c

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The following structures are used:

```
struct rdatainfo {
    unsigned int rdi_length; // length of data */
    unsigned char *rdi_data; // record data */
};
```

```
struct rrsetinfo {
    unsigned int rri_flags; // RRSET_VALIDATED... */
    unsigned int rri_rdclass; // class number */
    unsigned int rri_rdtype; // RR type number */
    unsigned int rri_ttl; // time to live */
    unsigned int rri_nrdatas; // size of rdatas array */
```
unsigned int  rri_nsigs; /* size of sigs array */
char        *rri_name;  /* canonical name */
struct rdatainfo  *rri_rdatas; /* individual records */
struct rdatainfo  *rri_sigs;  /* individual signatures */
};
</programlisting>
</para>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_getrrsetbyname()</function> gets a set of resource records associated with a
<parameter>hostname</parameter>, <parameter>class</parameter>, and <parameter>type</parameter>.

<parameter>hostname</parameter> is a pointer a to null-terminated string. The <parameter>flags</parameter> field is currently unused and must be zero.
</para>

After a successful call to <function>lwres_getrrsetbyname()</function>, <parameter>*res</parameter> is a pointer to an<type>rrsetinfo</type> structure, containing a list of one or more <type>rdatainfo</type> structures containing resource records and potentially another list of <type>rdatainfo</type> structures containing SIG resource records associated with those records. The members <constant>rri_rdclass</constant> and <constant>rri_rdtype</constant> are copied from the parameters. <constant>rri_ttl</constant> and <constant>rri_name</constant>
are properties of the obtained rrset.
The resource records contained in
<constant>ri_rdatas</constant>
and
<constant>ri_sigs</constant>
are in uncompressed DNS wire format.
Properties of the rdataset are represented in the
<constant>ri_flags</constant>
bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC
validated and the signatures verified.
</para>
<para>
All of the information returned by
<function>lwres_getrrsetbyname()</function>
is dynamically allocated: the
<constant>rrsetinfo</constant>
and
<constant>rdatainfo</constant>
structures,
and the canonical host name strings pointed to by the
<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by
a successful call to
<function>lwres_getrrsetbyname()</function>
is released by
<function>lwres_freerrset()</function>.

<parameter>rrset</parameter>
is a pointer to a
<type>struct rrset</type>
created by a call to
<function>lwres_getrrsetbyname()</function>.

</para>
<para>
</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getrrsetbyname()</function>
returns zero on success, and one of the following error
codes if an error occurred:
<variablelist>
</varlistentry>
<varlistentry>
<term><constant>ERRSET_NONAME</constant></term>
</varlistentry>
</variablelist>
</para>
</refsect1>
the name does not exist
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NODATA</constant></term>
<listitem><para>
the name exists, but does not have data of the desired type
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>
<listitem><para>
memory could not be allocated
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_INVAL</constant></term>
<listitem><para>
a parameter is invalid
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_FAIL</constant></term>
<listitem><para>
other failure
</para></listitem></varlistentry>

</variablelist>

</para>
</refsect1>
</refsect1>
<title>SEE ALSO</title>

<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>

</citerefentry>

</refsect1>
</refentry>

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/heap.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/mem.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/heap.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/list.h

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" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh FILES
" .Sh EXAMPLES
"This next request is for sections 1, 6, 7 & 8 only
"command return values (to shell) and
"fprintf/stderr type diagnostics"
".Sh DIAGNOSTICS
"The next request is for sections 2 and 3 error
"and signal handling only.
".Sh STANDARDS
".Sh HISTORY
".Sh BUGS

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*/
/*
* Get the response to 'request' by filling in 'message'.
*
* 'options' is passed to dns_message_parse(). See dns_message_parse()
* for more details.
* Requires:
*
* 'request' is a valid request for which the caller has received the
* completion event.

*The result code of the completion event was ISC_R_SUCCESS.
*
*Returns:
*
*ISC_R_SUCCESS
*
*Any result that dns_message_parse() can return.
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*/

/*

* This is the header file for the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*
* Changed so as no longer to depend on Colin Plumb's `usual.h'
* header definitions; now uses stuff from dpkg's config.h
* - Ian Jackson <ijackson@nyx.cs.du.edu>.
* Still in the public domain.
*/

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mx_15.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/time.c
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-->

<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
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lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>

<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of
the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.
</para>

<para>
<function>lwres_getaddrsbyname()</function> and
<function>lwres_getnamebyaddr()</function> use the
<type>lwres_gnbaresponse_t</type> structure defined below:
<programlisting>
typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                  **aliases;
    lwres_uint16_t          realnamelen;
    lwres_uint16_t         *aliaslen;
    lwres_addrlist_t        addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gnbaresponse_t;
</programlisting>
The contents of this structure are not manipulated directly but they are controlled through the
<citerefentry>
<refentrytitle>lwres_gnba</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
functions.
</para>

<para>
The lightweight resolver uses
<function>lwres_getaddrsbyname()</function> to perform forward lookups. Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation. <parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are
<type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and
<type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.
</para>

<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by <parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.

</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
Successful calls to <function>lwres_string_parse()</function> and <function>lwres_addr_parse()</function> return <errorcode>LWRES_R_SUCCESS</errorcode>. Both functions return <errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>
<function>lwres_getaddrsbyname()</function> returns <errorcode>LWRES_R_SUCCESS</errorcode> on success and it returns <errorcode>LWRES_R_NOTFOUND</errorcode> if the hostname <parameter>name</parameter> could not be found.

</para>

<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned by a successful call to <function>lwres_getnamebyaddr()</function>.

</para>

<para>
Both <function>lwres_getnamebyaddr()</function> and <function>lwres_getaddrsbyname()</function>
return
<errorcode>LWRES_R_NOMEMORY</errorcode> when memory allocation requests fail and
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffers used for sending queries and receiving replies are too small.
</para>

</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

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* BINOS specific changes to associate memcluster with an evctx
* March 2014, Aswin Kuppusami
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A" $Id: lwres_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
A"

Found in path(s):
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_inetntop.3

1.608 libmodulemd 2.9.4-2.el8
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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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 */
+ Unix SMB/CIFS implementation.
 + trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
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# This is a Makefile stub which handles the creation of BSD shared libraries.

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

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
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Theodore Ts'o
23-June-2007
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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.

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

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

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Gadi Oxman, August 1995

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1.623 pycparser 2.20-r0
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pycparser -- A C parser in Python

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/* Written by David MacKenzie <djm@gnu.ai.mit.edu> and Paul Eggert */

1.625 bash4 4.2-r6
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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

```The lyf so short, the craft so long to lerne.' - Chaucer

Chet Ramey, Case Western Reserve University

Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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1.633 python-attrs 19.2.0 r0

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Version 3.1, 31 March 2009

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

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
1.639 python3-itsdangerous 0.24 r0

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1.640 pcre 8.42-4.el8
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.641 procps 3.3.15 r0
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1.648 jemalloc 4.0.4 r0

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1.649 libdevmapper 2.03.02 r0

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1.650 python3-pycparser 2.20 r0

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pycparser -- A C parser in Python

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1.651 libpsl 0.20.2-6.el8

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1.652 python-backports-lzma 0.0.3 r0

1.653 go-patricia

2.2.6+gitAUTOINC+666120de43 r0

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1.654 gevent 1.4.0-r0
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gevent/libuv/_coreffi_source.c
gevent/libuv/_coreffi_cdef.c

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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
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1.656 selinux-gui 2.8 r0

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1.659 libyaml 0.1.7-5.el8

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Version 3.0, 18 August 2009

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1.663 python3-pygobject 3.34.0 r0

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.666 libxml 2.9.9 r0

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1.667 rpm 4.14.3-4.el8

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1.670 python3-cryptography 2.9 r0

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1.671 gobject-introspection 1.60.2 r0

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1.672 python-enum 1.1.6 r0

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1.673 gawk 5.0.1 r0

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1.678 binutils 2.32.0 r0

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

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

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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
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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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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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Gocheck - A rich testing framework for Go

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1.692 python3-pycrypto 2.6.1 r0

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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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From dlitz@dlitz.net Wed Aug 27 21:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: m-dlitz-dlitz@dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:02 +0100
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
  enc@nsa.gov,
  web_site@bis.doc.gov,
  pycrypto@lists.dlitz.net,
  PYTHON-CRYPTO@NIC.SURFNET.NL,
  dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
  id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82F7C7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: 0
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dltz@dlitz.net> wrote:

> Hi Paul,
> 
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> > 
> > That's great!
> 
> > I understand that you have made contributions to PyCrypto, under nickname
> > "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> 
> blic
Open Source Used In IOSXE Releases 17.7.1-RMs  8406

> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0The contents of this file are dedicated to the public domain. =C2=A0
> =C2=A0To the extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
> r r
>
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.
>
> Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>>
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>>
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>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>
>> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at http://www.pycrypto.org/.

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

---
Open Source Used In IOSXE Releases 17.7.1-RMs 8409
Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJhnEjvBptnXfVAQLZjgP/ccG+JdZwNvPJRfsa6rhY6+MHLDHl6agk
evkJnSJQAcVHI/ZnV1eR5lXgvDUMakZiU4SOV7VkhsKA9llet7PaD9V5lYgn3ra5
gEIw12DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohnHkeFBjwDRA3wltOrH7
SK4w9VBJfuY=3D
=3DQduY
-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

```
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```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

```
--amk (www.amk.ca)
```

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

```
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```

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

```
May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?
```

```
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May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?
```
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfocyQ2DdAXKg9N7Z+jcSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk                                                    (www.amk.ca)

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clearer licensing regime. I am asking as many copyright holders as I can
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any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A2A 928C EC13 39C2 5CF7
From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so125233rveh.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references:
:subject:from:to:content-type;
bh=Wy9U32WCUksRquHwaOZjQBUs4Yvt5mI20U6mi/g=;
b=b0Jl2I1xYjJKge2zNJW3rIiU9LqFXmey5Wp0pLItuNF+x3dyuhhopTuBAKw7MwVY
B5E6VQuGVEyzBbn5cbyVqggDhQItouCLZymSviobbmuDmKn5DtkpX0cxQmHYaas
L9/A6D3/J66kKvNBgX9mc0GbZtVFiVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:subject:from:
:content-type;
b=YM77CSuDEfJKayl1Ajyw4ZlZmJA1rTcwCG6akBHAXLd8ht6PCmx1sffzZG8hJCIvJ8
vljqt+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrs24zikHfpSSd5FGozXaLVvGfV8hp
bqSHpfWnKtfEP4gAQkiNeiq1GNtR2jXU3fnRyg=

MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd86246f68d66d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
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> >
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> > dissemination and usage except those imposed by the laws of your
> > country of residence. This software is provided "as is" without
> > warranty of fitness for use or suitability for any purpose, express
> > or implied. Use at your own risk or not at all.
> > ==============================================================
> >
> > Incorporating the code into commercial products is permitted; you do
> > not have to make source available or contribute your changes back
> > (though that would be nice).
> >
> > --amk
> > (www.amk.ca)
>>
> > For the next PyCrypto release, I would like to take steps to move toward a
> > clearer licensing regime. I am asking as many copyright holders as I can
> > find if I can release PyCrypto under something clearer and more standard.
> > Below, I have quoted a public domain dedication that was recommended in
> > _Intellectual Property and Open Source: A Practical Guide to Protecting
> > Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div> <div>Please direct any further correspondence to jeethu@jeethurao.com</div>On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:<br>Hi Jeethu,<br><br>I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at "http://www.pycrypto.org/".
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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license.

to exercise all rights associated with the contents of this file for

any purpose whatsoever. No rights are reserved.

Regards,

- Dwayne

--

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

---000e0cd209d0e5a3d40464a23054---

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting

code to PyCrypto must be able to certify the following (taken from the Linux

kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
    have the right to submit it under the open source license
    indicated in the file; or

(b) The contribution is based upon previous work that, to the best
    of my knowledge, is covered under an appropriate open source
    license and I have the right under that license to submit that
    work with modifications, whether created in whole or in part
    by me, under the same open source license (unless I am
    permitted to submit under a different license), as indicated
    in the file; or

(c) The contribution was provided directly to me by some other
    person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution
are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

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--amk (www.amk.ca)

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <ddown@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMFP id 2315B40583
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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Regards,
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Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
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Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUNYmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-
Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2hbFzpQyKUZ7hASBYhunjumpGw4Vzlekb9Bsk91qKUI+51WkTkXBlj5YIZhLQdkQk0qLz5f4g8dT6bOME3s
EY1j10hh0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EjHPe+FiVyaoLV0FONWiHGDghPT1dulWXiTQgB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RhFFF5VzQLg+9tcm1xKuo4Rs4IVvXF6fdqOpQRYRnCxeFoeebhuTE35grGqlomOJLwM0+miZwRb6rGkDj7
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eo=;
Message-ID: <551070.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWWMVM1mFJtLpMGbUbCLjUbQC.i.JKiAKUHSFsFnt79PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqAfFy
4vZSnTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TX4j8MxDAGf1tpNF5nXPwcQ7aREs7jGoWWVJYVyt50cIsUFS
Hzf7Zbpa81Yoe_xSzf30AgRS5fCrbFCC8sHPCuwrL3YhasbtHmkWfiteSS.x6gEcBaxf0z0sz4FeDb5mpJ54g11X
onq8h_TmzXg84Bln9g_3fJ4WXSxm6g6.tohlytXcUxozj4036wyWpTKPrWEzUIQaN835v_bj_Ghxv--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

======================================================================
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======================================================================
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
> 
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
> 
> Regards,
> 
> Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Regards,
> 
> Dwayne
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

For the next PyCrypto release, I would like to take steps to move toward a
>> clearer licensing regime. I am asking as many
>> copyright holders as I can
>> find if I can release PyCrypto under something clearer and
>> more standard.
>> Below, I have quoted a public domain dedication that was
>> recommended in
>> _Intellectual Property and Open Source: A Practical Guide
>> to Protecting
>> Code_, by Van Lindberg. I have already contacted A.
>> M. Kuchling, Robey
>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
>> have all
>> approved the following dedication for their contributions.
>>
>> I understand that you have made contributions to
>> PyCrypto. May I, on your
>> behalf, dedicate to the public domain all your
>> contributions to PyCrypto,
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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> >
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> >
> > ==
> > ==============================================================
> >
> In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
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1.696 basesystem 11-5.el8

1.696.1 Available under license:

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

%global distroname %$(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})

Summary: The skeleton package which defines a simple %{distroname} system
Name: basesystem
Version: 11
Release: 5% (?dist)
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch
Basesystem defines the components of a basic `{distroname}` system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

...
* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasík <ovasík@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
  - Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
  - Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
  - rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
  - bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
* Wed Jan 09 2002 Tim Powers <timp@redhat.com>  
- automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>  
- automatic rebuild

* Tue Jun  6 2000 Bill Nottingham <notting@redhat.com>  
- rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>  
- auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>  
- don’t require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>  
- require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>  
- build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>  
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>  
- translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>  
- made a noarch package

Found in path(s):  
* /opt/cola/permits/1210918301_1633472794.60/basesystem-11-5.el8-1.src.rpm-cosi-expand-archive-szXkL2oX/basesystem.spec

**1.697 python3-pluggy 0.13.0 r0**

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1.698 httping 2.5 r0

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1.699 ebtables 2.0.10-4 r4

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1.701 ncurses 6.1-7.20180224.el8

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1.702 openssl 1.0.2k-19.el7

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1.703 systemd-bootchart

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