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4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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 35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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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 space on the stuff in the html/pic/ subdirectory
 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 50. [54]Michael Shields <shields@tembel.org> USNO clock driver
 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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 59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
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- Bernd Altmeier <altmeier@atsoft.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@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up rcvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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- Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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- Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt>
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* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/evpn/mac.py

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/evpn/nlri.py

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/evpn/multicast.py

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Found in path(s):

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/vpls.py

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```

Found in path(s):

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/dep/objgraph.py

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Found in path(s):

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/environment.py

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

Metadata-Version: 1.1

Name: exabgp

Version: 3.4.17

Summary: BGP swiss army knife

Home-page: <https://github.com/Exa-Networks/exabgp>

Author: Thomas Mangin

Author-email: thomas.mangin@exa-networks.co.uk

License: BSD

Download-URL: <https://github.com/Exa-Networks/exabgp/archive/3.4.17.tar.gz>

Description: =====

ExaBGP

=====

.. image:: <https://img.shields.io/badge/chat-gitter-blue.svg>

:target: <https://gitter.im/Exa-Networks/exabgp>

:alt: Gitter

.. image:: <https://img.shields.io/pypi/v/exabgp.svg>

:target: <https://pypi.python.org/pypi/exabgp/>

:alt: Latest Version

.. image:: <https://img.shields.io/pypi/dm/exabgp.svg>
:target: <https://pypi.python.org/pypi/exabgp/>
:alt: Downloads

.. image:: <https://img.shields.io/scrutinizer/coverage/g/exa-networks/exabgp.svg>
:target: <https://coveralls.io/r/Exa-Networks/exabgp>
:alt: Coverage

.. image:: <https://img.shields.io/pypi/l/exabgp.svg>
:target: <https://pypi.python.org/pypi/exabgp/>
:alt: License

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:depth: 2

Introduction

=====

ExaBGP allows engineers to control their network from commodity servers. Think of it as Software Defined Networking using BGP.

It can be used to announce ipv4, ipv6, vpn or flow routes (for DDOS protection) from its configuration file(s).

ExaBGP can also transform BGP messages into friendly plain text or JSON which can be easily manipulate by scripts and report peer announcements.

Use cases include

- sql backed `looking glass` <https://code.google.com/p/gixlg/wiki/sample_maps>`_ with prefix routing visualisation
- service `high availability` <<http://vincent.bernat.im/en/blog/2013-exabgp-highavailability.html>>`_ automatically isolating dead servers / broken services
- `DDOS mitigation` <<http://perso.nautile.fr/prez/fgabut-flowspec-frnog-final.pdf>>`_ solutions
- `anycasted` <<http://blog.iweb-hosting.co.uk/blog/2012/01/27/using-bgp-to-serve-high-availability-dns/>>`_ services

Installation

=====

Prerequisites

ExaBGP requires python 2.6 or 2.7. It has no external dependencies.

Using pip

#. Use pip to install the packages:

::

```
pip install -U exabgp
exabgp --help
```

Without installation

::

```
curl -L https://github.com/Exa-Networks/exabgp/archive/3.4.17.tar.gz | tar zx
./exabgp-3.4.17/sbin/exabgp --help
```

Feedback and getting involved

=====

- Gitter: <https://gitter.im/Exa-Networks/exabgp>
- #exabgp: <irc://irc.freenode.net:6667/exabgp>
- Google +: <https://plus.google.com/u/0/communities/108249711110699351497>
- Twitter: <https://twitter.com/#!/search/exabgp>
- Mailing list: <http://groups.google.com/group/exabgp-users>
- Issue tracker: <https://github.com/Exa-Networks/exabgp/issues>
- Code Repository: <https://github.com/Exa-Networks/exabgp>

Keywords: bgp routing api sdn flowspec

Platform: macosx-10.11-x86_64

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: POSIX

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Programming Language :: Python

Classifier: Topic :: Internet

Found in path(s):

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp.egg-info/PKG-INFO

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/PKG-INFO

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Found in path(s):

- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/bgp/asn.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/show/__init__.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/reactor/api/control.py

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Found in path(s):

- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/__init__.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/clusterlist.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/netlink/attributes.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/eor.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/aspath.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/util/usage.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/protocol/ip/__init__.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/prefix.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/open/capability/graceful.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/community/community.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/mps.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/netlink/sequence.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/originatorid.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/protocol/ip/tcp/flag.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/open/capability/refresh.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/reactor/api/decoder/text.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/reactor/peer.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/aigp.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/protocol/ip/fragment.py

- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/nlri.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/localpref.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/engine/reader.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/protocol/__init__.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/ancient.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bmp/negotiated.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/notification.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/reactor/api/processes.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/keepalive.py
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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/community/extended/communities.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/qualifier/rd.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/med.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/engine/parser.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/application/bmp.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/open/capability/unknown.py
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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/__init__.py
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3.4.17/lib/exabgp/reactor/api/decoder/json.py
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* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/protocol/family.py
* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bmp/message.py
* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/qualifier/path.py
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Found in path(s):

* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/dep/docopt.py
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* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/dep/pyparsing.py

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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/community/extended/l2info.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/qualifier/etag.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/qualifier/esi.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/nlri/qualifier/mac.py
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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/pmsi.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/bgp/message/update/attribute/community/extended/origin.py

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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/bgp/__init__.py
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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/bgp/family.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/__init__.py
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- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/neighbor/capability.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/engine/location.py
- * /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-3.4.17/lib/exabgp/configuration/engine/section.py
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3.4.17/lib/exabgp/bgp/message/update/nlri/evpn/segment.py

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* /opt/cola/permits/1162606335_1620872179.85/0/exabgp-3-4-17-tar-gz/exabgp-
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3.4.17/lib/exabgp/reactor/network/error.py
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3.4.17/lib/exabgp/reactor/listener.py

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1.8 usbutils 006

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```
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1.9 zlib 1.2.11

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

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

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

*/

1.10 bind 9.8.0

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1.11 zlib 1.2.7

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version 1.2.7, May 2nd, 2012

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

*/

1.12 libedit 2.1

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1.14 dosfs-tools 2.11

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1.15 open-ldap 2.4.33

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1.18 libvmtools 10.1.5.6677369

1.18.1 Available under license :

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open-vm-tools v10.1.15

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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.

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```
>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> unicode-5.0
```

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>>> freebsd-1.72

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

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

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>>> unicode-5.0

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1.22 libsgutils 1.35

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That's all there is to it!

1.27 sysv-init 2.78-4

1.27.1 Available under license :

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This is the Debian GNU/Linux prepackaged version of System V Init. Init was written by Miquel van Smoorenburg <miquels@drinkel.cistron.nl>.

This package was put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> has integrated debian support into the base package.

Changes:

29-January-1995 Bruce Perens <Bruce@Pixar.com>

Added Debian GNU/Linux package maintenance system files.

25-February-1995 Ian Murdock <imurdock@debian.org>

Finished integration of Sys V Init into the base system.

28-December-1995 Miquel van Smoorenburg <miquels@cistron.nl>

Added debian support to sysvinit.

For further changes see the ChangeLog file.

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1.28 liburcu 0.8.6

1.28.1 Available under license :

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:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html>

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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Version 2.1, February 1999

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1.29 vpp-papi 1.6.2

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Found in path(s):

```
* /opt/cola/permits/1155495057_1623189164.64/0/vpp-papi-1-6-tar-gz/vpp_papi-1.6/vpp_papi/vpp_papi.py
* /opt/cola/permits/1155495057_1623189164.64/0/vpp-papi-1-6-tar-gz/vpp_papi-1.6/vpp_papi/vpp_serializer.py
* /opt/cola/permits/1155495057_1623189164.64/0/vpp-papi-1-6-tar-gz/vpp_papi-1.6/setup.py
```

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Metadata-Version: 1.0
Name: vpp_papi
Version: 1.6
Summary: VPP Python binding
Home-page: https://wiki.fd.io/view/VPP/Python_API
Author: Ole Troan
Author-email: ot@cisco.com
License: Apache-2.0
Description: VPP Python language binding.
Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/1155495057_1623189164.64/0/vpp-papi-1-6-tar-gz/vpp_papi-1.6/PKG-INFO

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Metadata-Version: 1.0
Name: vpp-papi
Version: 1.6
Summary: VPP Python binding
Home-page: https://wiki.fd.io/view/VPP/Python_API
Author: Ole Troan
Author-email: ot@cisco.com
License: Apache-2.0
Description: VPP Python language binding.
Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/1155495057_1623189164.64/0/vpp-papi-1-6-tar-gz/vpp_papi-1.6/vpp_papi.egg-info/PKG-INFO

1.30 gmp 6.0.0

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1.31 curl 7.62.0

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Upstream-Name: ipmiutil

Upstream-Contact: Andy Cress <arcress@users.sourceforge.net>

Source: <http://ipmiutil.sourceforge.net>

Comment: This package was debianized by Andy Cress on 2010-10-29, with Debian package updates by Alex Waite on 2013-06-14

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Upstream-Name: ipmiutil

Upstream-Contact: Andy Cress <arcress@users.sourceforge.net>

Source: <http://ipmiutil.sourceforge.net>

<http://www.openmash.org/lxr/source/src/getopt.c?c=gsm>

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1.38 pam 0.72

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1.39 e2fsprogs 1.38

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*/

Index: tdbsa/tdb.c

=====
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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You should have received a copy of the GNU General Public License
```

along with this program; if not, write to the Free Software
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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) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Version 2, June 1991

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

That's all there is to it!

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

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

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

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

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

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

From the original distribution:

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

```

clean::

```
$(RM) -rf pic
```

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

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

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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```

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```
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```
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```

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

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1.40 rng-tools 5

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```

```
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1.41 ncurses 5.6

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(This file is under construction.) -*- text -*-

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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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1.44 pip 9.0.1

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1.45 iperf 3.2

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*
* stdio.c
* by Mark Gates <mgates@nlanr.net>
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* -----
* input and output numbers, converting with kilo, mega, giga
* ----- */

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1.46 setserial 2.17

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1.47 libnfsidmap 0.20

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1.48 zlib 1.2.5

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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1.49 exabgp 3.4.16

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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/community/extended/encapsulation.py
* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/qualifier/mac.py
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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/pmsi.py
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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/dep/pyparsing.py
```

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

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Found in path(s):

```
* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/vpls.py
```

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

Metadata-Version: 1.1

Name: exabgp

Version: 3.4.16

Summary: BGP swiss army knife

Home-page: <https://github.com/Exa-Networks/exabgp>

Author: Thomas Mangin

Author-email: thomas.mangin@exa-networks.co.uk

License: BSD

Download-URL: <https://github.com/Exa-Networks/exabgp/archive/3.4.16.tar.gz>

Description: =====

ExaBGP

=====

.. image:: <https://img.shields.io/badge/chat-gitter-blue.svg>

:target: <https://gitter.im/Exa-Networks/exabgp>

:alt: Gitter

.. image:: <https://img.shields.io/pypi/v/exabgp.svg>

:target: <https://pypi.python.org/pypi/exabgp/>

:alt: Latest Version

.. image:: <https://img.shields.io/pypi/dm/exabgp.svg>

:target: <https://pypi.python.org/pypi/exabgp/>

:alt: Downloads

.. image:: <https://img.shields.io/scrutinizer/coverage/g/exa-networks/exabgp.svg>

:target: <https://coveralls.io/r/Exa-Networks/exabgp>

:alt: Coverage

.. image:: <https://img.shields.io/pypi/l/exabgp.svg>

:target: <https://pypi.python.org/pypi/exabgp/>

:alt: License

.. contents:: **Table of Contents**

:depth: 2

Introduction

=====

ExaBGP allows engineers to control their network from commodity servers. Think of it as Software Defined Networking using BGP.

It can be used to announce ipv4, ipv6, vpn or flow routes (for DDOS protection) from its configuration file(s).

ExaBGP can also transform BGP messages into friendly plain text or JSON which can be easily manipulate by scripts and report peer announcements.

Use cases include

- sql backed `looking glass` <https://code.google.com/p/gixlg/wiki/sample_maps>`_` with prefix routing visualisation
- service `high availability` <<http://vincent.bernat.im/en/blog/2013-exabgp-highavailability.html>>`_` automatically isolating dead servers / broken services
- `DDOS mitigation` <<http://perso.nautile.fr/prez/fgabut-flowspec-frnog-final.pdf>>`_` solutions
- `anycasted` <<http://blog.iweb-hosting.co.uk/blog/2012/01/27/using-bgp-to-serve-high-availability-dns/>>`_` services

Installation

=====

Prerequisites

ExaBGP requires python 2.6 or 2.7. It has no external dependencies.

Using pip

#. Use pip to install the packages:

::

```
pip install -U exabgp
exabgp --help
```

Without installation

::

```
curl -L https://github.com/Exa-Networks/exabgp/archive/3.4.16.tar.gz | tar zx
./exabgp-3.4.16/sbin/exabgp --help
```

Feedback and getting involved

=====

- Gitter: <https://gitter.im/Exa-Networks/exabgp>
- #exabgp: <irc://irc.freenode.net:6667/exabgp>
- Google +: <https://plus.google.com/u/0/communities/108249711110699351497>
- Twitter: <https://twitter.com/#!/search/exabgp>
- Mailing list: <http://groups.google.com/group/exabgp-users>
- Issue tracker: <https://github.com/Exa-Networks/exabgp/issues>
- Code Repository: <https://github.com/Exa-Networks/exabgp>

Keywords: bgp routing api sdn flowspec

Platform: macosx-10.11-x86_64
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: POSIX
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
Classifier: Programming Language :: Python
Classifier: Topic :: Internet

Found in path(s):

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp.egg-info/PKG-INFO

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/PKG-INFO

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Found in path(s):

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/network/error.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/operational.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/listener.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/network/tcp.py

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

LICENCE: MIT

Found in path(s):

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/dep/profiler.py

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Found in path(s):

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/evpn/mac.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/evpn/multicast.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/evpn/nlri.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/evpn/__init__.py

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Found in path(s):

- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/configuration/engine/parser.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/eor.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/sequence.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/message.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/operational.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/negotiated.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/firewall.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/route/neighbor.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/mpnlnlri.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/community/extended/__init__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/api/encoding.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/asn4.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/__init__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/dep/orderreddict.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/routerid.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/neighbor.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/trace.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/protocol/ip/tcp/flag.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/__init__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/__main__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/qualifier/labels.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/coroutine.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/holdtime.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-

3.4.16/lib/exabgp/util/enumeration.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/clusterlist.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/mppls.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/capabilities.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/localpref.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/attributes.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/protocol/ip/fragment.py

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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/api/command.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/nop.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/protocol.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/asn.py

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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/notification.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/route/link.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/od.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/route/address.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/community/community.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bmp/negotiated.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/hashtable.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/addpath.py

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* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/data/check.py

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/cidr.py

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- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/aigp.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/api/decoder/text.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/message.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/configuration/engine/reader.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/panic.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/peer.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/api/decoder/json.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/unknown.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/logger.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/netlink/route/network.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/attributes.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/community/extended/community.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/errstr.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/ip.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/application/bmp.py
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- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/__init__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/util/usage.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/network/connection.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bmp/header.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/graceful.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/rib/change.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/rib/store.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/__init__.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/debug.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/community/extended/communities.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/nlri/nlri.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/update/attribute/origin.py

- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bgp/message/open/capability/capability.py
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- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/reactor/api/processes.py
- * /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/bmp/message.py
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Found in path(s):

* /opt/cola/permits/1162606336_1620872182.03/0/exabgp-3-4-16-tar-gz/exabgp-3.4.16/lib/exabgp/configuration/show/__init__.py
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1.50 iconv 2.17

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```
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```
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1.51 busybox 1.9.0

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

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |

| | | | | |
|---------------|-----------|----------|------|---------|
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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The End

1.55 uclibc 0.9.30.1

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Delivered-To: mps@bridge.intra
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by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
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Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment

it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.56 xfsprogs 2.8.16

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It can be downloaded from <ftp://oss.sgi.com/projects/xfs/download/>

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```

```
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Ty Coon, President of Vice
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1.57 pkix-ssh 11.0

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1.58 libdnet 1.11

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1.59 tcp-dump 3.1.0

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1.60 libtomcrypt 1.17

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```
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# * SHA-512  
# * Implementation derived from LibTomCrypt (Tom St Denis)  
# *
```

```
# * LibTomCrypt is a library that provides various cryptographic
# * algorithms in a highly modular and flexible manner.
# *
# * The library is free for all purposes without any express
# * guarantee it works.
# *
# * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
# */
```

1.61 crash 7.1.9

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1.62 pcre 8.41

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THE BASIC LIBRARY FUNCTIONS

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1.63 libpcap 0.9.2

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1.66 libcap 1.10

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

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

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

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

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

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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

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

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1.70 hostapd 0.5.7

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1.71 libusb 1.0.9

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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

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

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```
#ifndef X86_BSD_NAT_H  
#define X86_BSD_NAT_H
```

```
#include "x86-nat.h"
```

```

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

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```
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
/* Native-dependent code for modern AMD64 BSD's.
```

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```
#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
                                              int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
                                              int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
```



```
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
```

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/* Native-dependent code for modern i386 BSD's.

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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H
```

```
/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
                                             int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
                                             int regnum);
```

```
/* A prototype *BSD/i386 target. */
```

```
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { i386bsd_fetch_inferior_registers (regcache, regnum); }

    void store_registers (struct regcache *regcache, int regnum) override
    { i386bsd_store_inferior_registers (regcache, regnum); }
};
```

```
#endif /* i386-bsd-nat.h */
```

```
BEGIN {
    FS="\"";
    print "/* ==> Do not modify this file!! " \
"-*- buffer-read-only: t -*- vi" \
":set ro:";
    print " It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <== */";
    print ""
    print "#include \"defs.h\""
    print "#include \"command.h\""
    print "#include \"gdbcmd.h\""
    print ""
    print "static void show_copying_command (const char *, int);"
    print ""
    print "static void show_warranty_command (const char *, int);"
    print ""
    print "static void";
    print "show_copying_command (const char *ignore, int from_tty)";
    print "{";
}
```

```
NR == 1,/^[ ]*15\ Disclaimer of Warranty\.[ ]*$/ {
```

```
    if ($0 ~ //)
```

```
    {
```

```

    printf " printf_filtered (\\n\\n);\\n";
}
else if ($0 !~ /^[ ]*15\\. Disclaimer of Warranty\\. [ ]*$/)
{
    printf " printf_filtered (\\n";
    for (i = 1; i < NF; i++)
printf "%s\\n", $i;
    printf "%s\\n");\\n", $NF;
}
}
/^[ ]*15\\. Disclaimer of Warranty\\. [ ]*$/ {
    print "}";
    print "";
    print "static void";
    print "show_warranty_command (const char *ignore, int from_tty)";
    print "{";
}
/^[ ]*15\\. Disclaimer of Warranty\\. [ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
    if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
        printf " printf_filtered (\\n";
        for (i = 1; i < NF; i++)
printf "%s\\n", $i;
        printf "%s\\n");\\n", $NF;
    }
}
END {
    print "}";
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print " add_cmd (\\copying\\", no_set_class, show_copying_command, ";
    print " _ (\\\"Conditions for redistributing copies of GDB.\\\"), ";
    print " &showlist);";
    print " add_cmd (\\warranty\\", no_set_class, show_warranty_command, ";
    print " _ (\\\"Various kinds of warranty you do not have.\\\"), ";
    print " &showlist);";
    print "";
    print " /* For old-timers, allow \\\"info copying\\\", etc. */";
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    print " add_info (\\warranty\\", show_warranty_command, ";
    print " _ (\\\"Various kinds of warranty you do not have.\\\"));";
    print "}";
}
}
/* BSD Kernel Data Access Library (libkvm) interface.

```

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```
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"    /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;
```

```

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump."),
};

class bsd_kvm_target final : public process_stratum_target
{
public:
    bsd_kvm_target () = default;

    const target_info &info () const override
    { return bsd_kvm_target_info; }

    void close () override;

    void fetch_registers (struct regcache *, int) override;
    enum target_xfer_status xfer_partial (enum target_object object,
        const char *annex,
        gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len,
        ULONGEST *xfered_len) override;

    void files_info () override;
    bool thread_alive (ptid_t ptid) override;
    const char *pid_to_str (ptid_t) override;

    bool has_memory () override { return true; }
    bool has_stack () override { return true; }

```

```

bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
            filename = temp;
        }
    }

    execfile = get_exec_file (0);
    temp_kd = kvm_openfiles (execfile, filename, NULL,
        write_files ? O_RDWR : O_RDONLY, errbuf);
    if (temp_kd == NULL)
        error ("%s", errbuf);

    bsd_kvm_corefile = filename;
    unpush_target (&bsd_kvm_ops);
    core_kd = temp_kd;
    push_target (&bsd_kvm_ops);

    add_thread_silent (bsd_kvm_ptid);
    inferior_ptid = bsd_kvm_ptid;

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

```



```

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ((" %s"), kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
    discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
                    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
                             const char *annex, gdb_byte *readbuf,
                             const gdb_byte *writebuf,
                             ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST) ret;
                return TARGET_XFER_OK;
            }
        }
    }
}

```

```

    }
    }

    default:
        return TARGET_XFER_E_IO;
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error ("%s", kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
       in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_dumppcb";

```

```

if (kvm_nlist (core_kd, nl) == -1)
    error (("s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    /* Found dumppcb. If it contains a valid context, return
    immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error (("s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

```

```

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image.));

    addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error ("%s"), kvm_geterr (core_kd));
}

```

```

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
if (arg == NULL)
/* i18n: PCB == "Process Control Block". */
error_no_arg (_("pcb address"));

if (core_kd == NULL)
error (_("No kernel memory image."));

bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
static char buf[64];
xsnprintf (buf, sizeof buf, "<kvm>");
return buf;
}

/* Add the libkvm interface to the list of all possible targets and
register CUPPLY_PCB as the architecture-specific process control
block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
gdb_assert (bsd_kvm_supply_pcb == NULL);

```

```

bsd_kvm_supply_pcb = supply_pcb;

add_target (bsd_kvm_target_info, bsd_kvm_target_open);

add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\"
Generic command for manipulating the kernel memory interface.\""),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block". */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

```

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:

```

ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

```

```

bsd_kvm_ptid = ptid_t (1, 1, 0);
}

```

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

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

```
# Copyright (C) 2011-2019 Free Software Foundation, Inc.
```

```
#
```

```
# This file is part of GDB.
```

```
#
```

```
# This program is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 3 of the License, or  
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```

```
#
```

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```
#
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```

```
"""copyright.py
```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!

A useful command to review the output is:

```
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

```
"""
```

```
import datetime
```

```
import os
```

```
import os.path
```

```
import subprocess
```

```
def get_update_list():
```

```
    """Return the list of files to update.
```


Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.

```
"""
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
return result
```

```
def update_files(update_list):
```

```
    """Update the copyright header of the files in the given list.
```

```
    We use gnuilib's update-copyright script for that.
```

```
    """
```

```
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
```

```
    # Perform the update, and save the output in a string.
```

```
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
```

```
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                          stderr=subprocess.STDOUT)
```

```
    update_out = p.communicate()[0]
```

```
    # Process the output. Typically, a lot of files do not have
```

```

# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('\n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
    else:
        # Unrecognized file format. !?!
        print "*** " + line

```

```

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

```

The filename is relative to the root directory.
This function assumes that the current working directory is that root directory.

The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...

```

"""
# For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
if lineno > 50:

```

```

    return False
return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
            "REMINDER: Multiple copyright headers must be updated by hand:"
            "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
            "\033[0m"
        for filename in BY_HAND:
            print " ", filename

#####
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
#####

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'

```

```

)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfc.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
)

```

```

# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantic.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantic.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":

```

main()

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Version 2, June 1991

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1.74 ncurses 5.9

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Files: install-sh

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction

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1.75 zlib 1.2.3

1.75.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002
```

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

```
*/
```

```
/* match.s -- Pentium-optimized version of longest_match()
```

```
* Written for zlib 1.1.2
```

```
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>
```

```
*
```

```
* This is free software; you can redistribute it and/or modify it
```

```
* under the terms of the GNU General Public License.
```

```
*/
```

1.76 iputils s20070202

1.76.1 Available under license :

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1.77 gdb 6.6

1.77.1 Available under license :

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1.78 ipmi-tool 1.8.9

1.78.1 Available under license :

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1.79 ftpd-bsd 0.3.2

1.79.1 Available under license :

```
# $OpenBSD: Makefile,v 1.5 1999/02/23 23:54:16 art Exp $

PROG= ls
SRCS= cmp.c stat_flags.c ls.c main.c print.c util.c

.include <bsd.prog.mk>
#%PAM-1.0
auth    required /lib/security/pam_listfile.so item=user sense=deny file=/etc/ftpusers onerr=succeed
auth    required /lib/security/pam_pwdb.so shadow nullok
auth    required /lib/security/pam_shells.so
account required /lib/security/pam_pwdb.so
session required /lib/security/pam_pwdb.so
# $OpenBSD: Makefile,v 1.16 2000/03/01 17:27:28 deraadt Exp $
# $NetBSD: Makefile,v 1.13 1996/02/16 02:07:41 cgd Exp $
# @(#)Makefile 8.2 (Berkeley) 4/4/94

PROG= ftpd
CFLAGS+=-DHASSETPROCTITLE -Dunix
SRCS= ftpd.c ftpcmd.c logutmp.c logwtmp.c popen.c
MAN= ftpd.8
CLEANFILES+=ftpcmd.c y.tab.h

.include <bsd.own.mk>
```

```

# our internal version of ls.

LSDIR = ${.CURDIR}/../bin/ls
.PATH: ${LSDIR}
SRCS += ls.c cmp.c print.c stat_flags.c util.c
CFLAGS += -I${LSDIR}

# not really used
CPPFLAGS+=-DINET6

.if (${SKEY} == "yes")
CFLAGS+=-DSKEY
LDADD+= -lskey
DPADD+= ${LIBSKEY}
.endif

.if (${KERBEROS} == "yes")
SRCS+= klogin.c
.PATH: ${.CURDIR}/../usr.bin/login
CFLAGS+= -DKERBEROS
LDADD+= -lkafs -lkrb -ldes
DPADD+= ${LIBKRB} ${LIBKRB} ${LIBKAFS}
.endif

.if (${TCP_WRAPPERS} == "yes")
CFLAGS+=-DTCPWRAPPERS
LDADD+= -lwrap
DPADD+= ${LIBWRAP}
.endif

.include <bsd.prog.mk>
  A WARNING ABOUT GMT VS LOCALTIME
to people using ftpd-BSD-0.3.0 to serve anonymous FTP
who consider moving to ftpd-BSD-0.3.1

David A. Madore <david.madore@ens.fr>

```

(This warning should be included in the ftpd-BSD-0.3.1 distribution, but I discovered this after packaging, and I did not want to repackage, resign the tarball, rebuild the RPMs and resign them. So it will stay as a separate file.)

The FTP protocol is a bit old and does not specify in what format the file listings returned by the LIST and STAT commands are to be given. Traditionally, the Unix ``ls" program is run, so it has become the *de facto* standard for the commands' output format; many programs expect this and parse accordingly.

One thing is certainly not specified, and that is whether the time of last modification returned for the files listed is given in local time (the time in the server's time zone) or universal time (UT, aka Greenwich Mean Time or GMT).

Under Linux, the time format returned by the `ctime()` function in the (GNU) `libc` is determined by the contents of the `/etc/localtime` file which can be overridden by the `TZ` environment variable if it exists; if nothing is specified (e.g. if the `/etc/localtime` file does not exist), universal time is used (as is the case if `TZ=GMT`).

Version 0.3.0 of `ftpd-BSD` used an external `ls` program. In the case of anonymous `ftp`, this `ls` runs in a `chroot()`ed environment, and it frequently does not have an `/etc/localtime` file on which to rely, so it returns the time in GMT. Version 0.3.1, on the other hand, uses an internal `ls` function, so its time zone is initialized when the `ftpd` program is run, before the `chroot()` call is made, and the time zone used is typically the computer's local time. This means that simply moving from `ftpd-BSD-0.3.0` to `ftpd-BSD-0.3.1` without further precaution will offset all the last modification times returned by the `LIST` and `STAT` commands. If you live east of Greenwich, this could result in mirror sites needlessly downloading all files, thinking they have changed; if you live west of Greenwich, this could result in mirror sites not downloading files which they should have.

This may very well turn out to be a non-issue. I am not sure exactly how mirroring programs work. If you do not have any mirror sites, or if you use only non-anonymous FTP, the issue is moot.

One workaround is to start `ftpd` with `TZ=GMT` set. This generally means starting `inetd` with `TZ=GMT`. Beware, though, that environments tend to be inherited quite far, and even `telnetd` will have `TZ=GMT` and if you `telnet` into your machine you might have universal time instead of local time as you expect (but you can always `unset TZ` or position it as you like, e.g. `TZ=US/Eastern`). Another solution is not to use the internal `ls` command (in which case you might as well stick to version 0.3.0). Finally, you can decide to stick to local time, but I do not recommend this as the clients have no way of knowing the server's time zone (personally I think local time is good only when talking to humans, and everything else should always use universal time: this is the strategy taken by the HTTP protocol for example).

I would appreciate it if FTP experts could tell me more about this problem. I have read about Bernstein's easily parsed `LIST` format (see <http://cr.yp.to/ftp/list/eplf.html> for a description), and I wonder whether it is worth implementing (in particular, whether some clients understand it): I might try contacting the OpenBSD people about this.

--

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<http://www.eleves.ens.fr:8080/home/madore/>)

1.80 html5lib-python 1.0b9

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1.81 libnl3 3.2.25

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Version 2.1, February 1999

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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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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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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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1.83 sysv-init 2.78

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1.86 libevent 2.0.5-beta

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1.88 zlib 1.2.8

1.88.1 Available under license :

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

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

```
*/
```

1.89 zlib 1.1.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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1.90 bash 2.05b

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1.91 python 3.6.9

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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.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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Please see the file LICENCE in the PCRE distribution for licensing details.

End

```
/*  
* Perl-Compatible Regular Expressions *  
*/
```

```
/* This is the public header file for the PCRE library, to be #included by
```

applications that call the PCRE functions.

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POSSIBILITY OF SUCH DAMAGE.

*/

```
#ifndef _PCRE_H  
#define _PCRE_H
```

```
/* The current PCRE version information. */
```

```
#define PCRE_MAJOR      8  
#define PCRE_MINOR     31  
#define PCRE_PRERELEASE  
#define PCRE_DATE      2012-07-06
```

```
/* When an application links to a PCRE DLL in Windows, the symbols that are  
imported have to be identified as such. When building PCRE, the appropriate  
export setting is defined in pcre_internal.h, which includes this file. So we  
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */
```

```

#if defined(_WIN32) && !defined(PCRE_STATIC)
# ifndef PCRE_EXP_DECL
#  define PCRE_EXP_DECL extern __declspec(dllexport)
# endif
# ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern __declspec(dllexport)
#  endif
#  ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN __declspec(dllexport)
#  endif
# endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
# ifdef __cplusplus
#  define PCRE_EXP_DECL extern "C"
# else
#  define PCRE_EXP_DECL extern
# endif
#endif

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#  define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#  define PCRECPP_EXP_DEFN
# endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments

```

below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). */

```
#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE    0x00000002 /* Compile */
#define PCRE_DOTALL      0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED    0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA       0x00000040 /* Compile */
#define PCRE_NOTBOL     0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL     0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY   0x00000200 /* Compile */
#define PCRE_NOTEMPTY   0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8       0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16     0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL     0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE   0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES    0x00080000 /* Compile */
#define PCRE_NEWLINE_CR  0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF  0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP         0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1)
```

```

#define PCRE_ERROR_NULL          (-2)
#define PCRE_ERROR_BADOPTION     (-3)
#define PCRE_ERROR_BADMAGIC     (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE  (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY     (-6)
#define PCRE_ERROR_NOSUBSTRING  (-7)
#define PCRE_ERROR_MATCHLIMIT   (-8)
#define PCRE_ERROR_CALLOUT      (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8      (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16     (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL      (-12)
#define PCRE_ERROR_BADPARTIAL   (-13)
#define PCRE_ERROR_INTERNAL     (-14)
#define PCRE_ERROR_BADCOUNT    (-15)
#define PCRE_ERROR_DFA_UITEM    (-16)
#define PCRE_ERROR_DFA_UCOND    (-17)
#define PCRE_ERROR_DFA_UMLIMIT  (-18)
#define PCRE_ERROR_DFA_WSSIZE   (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT  (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE   (-23)
#define PCRE_ERROR_BADOFFSET    (-24)
#define PCRE_ERROR_SHORTUTF8    (-25)
#define PCRE_ERROR_SHORTUTF16   (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE      (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/* Specific error codes for UTF-8 validity checks */

```

#define PCRE_UTF8_ERR0          0
#define PCRE_UTF8_ERR1          1
#define PCRE_UTF8_ERR2          2
#define PCRE_UTF8_ERR3          3
#define PCRE_UTF8_ERR4          4
#define PCRE_UTF8_ERR5          5
#define PCRE_UTF8_ERR6          6
#define PCRE_UTF8_ERR7          7
#define PCRE_UTF8_ERR8          8
#define PCRE_UTF8_ERR9          9
#define PCRE_UTF8_ERR10         10
#define PCRE_UTF8_ERR11         11

```

```

#define PCRE_UTF8_ERR12      12
#define PCRE_UTF8_ERR13      13
#define PCRE_UTF8_ERR14      14
#define PCRE_UTF8_ERR15      15
#define PCRE_UTF8_ERR16      16
#define PCRE_UTF8_ERR17      17
#define PCRE_UTF8_ERR18      18
#define PCRE_UTF8_ERR19      19
#define PCRE_UTF8_ERR20      20
#define PCRE_UTF8_ERR21      21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0      0
#define PCRE_UTF16_ERR1      1
#define PCRE_UTF16_ERR2      2
#define PCRE_UTF16_ERR3      3
#define PCRE_UTF16_ERR4      4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS      0
#define PCRE_INFO_SIZE        1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX    3
#define PCRE_INFO_FIRSTBYTE     4
#define PCRE_INFO_FIRSTCHAR     4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE    5
#define PCRE_INFO_LASTLITERAL   6
#define PCRE_INFO_NAMEENTRYSIZE  7
#define PCRE_INFO_NAMECOUNT    8
#define PCRE_INFO_NAMETABLE    9
#define PCRE_INFO_STUDYSIZE    10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL    12
#define PCRE_INFO_JCHANGED     13
#define PCRE_INFO_HASCORRLF    14
#define PCRE_INFO_MINLENGTH    15
#define PCRE_INFO_JIT          16
#define PCRE_INFO_JITSIZE      17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE    1
#define PCRE_CONFIG_LINK_SIZE  2

```



```

#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT          4
#define PCRE_CONFIG_STACKRECURSE       5
#define PCRE_CONFIG_UNICODE_PROPERTIES  6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR                  8
#define PCRE_CONFIG_JIT                  9
#define PCRE_CONFIG_UTF16                10
#define PCRE_CONFIG_JITTARGET            11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE           0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA           0x0001
#define PCRE_EXTRA_MATCH_LIMIT          0x0002
#define PCRE_EXTRA_CALLOUT_DATA        0x0004
#define PCRE_EXTRA_TABLES               0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK                  0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT      0x0040

/* Types */

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;       /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifdef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

```

```

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags;      /* Bits for which fields are set */
  void *study_data;           /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;        /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  unsigned char **mark;       /* For passing back a mark pointer */
  void *executable_jit;       /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
  unsigned long int flags;      /* Bits for which fields are set */
  void *study_data;           /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;        /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  PCRE_UCHAR16 **mark;       /* For passing back a mark pointer */
  void *executable_jit;       /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
  int    version;           /* Identifies version of block */

```

```

/* ----- Version 0 ----- */
int    callout_number; /* Number compiled into pattern */
int    *offset_vector; /* The offset vector */
PCRE_SPTR subject;    /* The subject being matched */
int    subject_length; /* The length of the subject */
int    start_match;    /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;    /* Max current capture */
int    capture_last;   /* Most recently closed capture */
void   *callout_data;  /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
int    version; /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number; /* Number compiled into pattern */
int    *offset_vector; /* The offset vector */
PCRE_SPTR16 subject; /* The subject being matched */
int    subject_length; /* The length of the subject */
int    start_match;    /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top;    /* Max current capture */
int    capture_last;   /* Most recently closed capture */
void   *callout_data;  /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifdef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);

```

```

PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void (*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void (*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void (*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack (*pcre_jit_callback)(void *);
typedef pcre16_jit_stack (*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,

```

```

    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

```

```

/* Utility functions for byte order swaps. */

```

```

PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,

```

```

        const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
        const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
        PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
        pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
        pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */

/* GLIB - Library of useful routines for C programming
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 */

/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
 * files for a list of changes. These files are distributed with
 * GLib at ftp://ftp.gtk.org/pub/gtk/.
 */

#ifndef __G_LIB_H__
#define __G_LIB_H__

```

```
#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
```

```

#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */

```

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1.94 xmlrpc-c 1.06.38

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1.95 zlib 1.1.4

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

1.96 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

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1.97 python 3.6.6

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.. highlightlang:: none

.. _history-and-license:

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=====

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

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

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

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

| Release | Derived from | Year | Owner | GPL compatible? |
|----------------|--------------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |

| | | | | | |
|---------------|-----------|----------|------|-----|--|
| 1.6.1 | 1.6 | 2001 | CNRI | no | |
| +-----+ | | | | | |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no | |
| +-----+ | | | | | |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes | |
| +-----+ | | | | | |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes | |
| +-----+ | | | | | |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes | |
| +-----+ | | | | | |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes | |
| +-----+ | | | | | |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes | |
| +-----+ | | | | | |

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Mersenne Twister

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

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

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

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `:mod:`xmlrpc.client`` module contains the following notice::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

The `:mod:`_decimal`` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`::`

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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.

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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 */
```

[zlib]

```
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   version 1.2.3, July 18th, 2005
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

[dialyzer]

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[edoc, syntax_tools]

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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