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

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Lucas Wiman

Jingxin Zhu

If you think you belong on this list, please let me know! --Benjamin

1.2 urllib3 1.25.8-2ubuntu0.1

1.2.1 Available under license:

Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

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

- * erikcederstrand http://code.google.com/u/erikcederstrand/
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)
- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers
- * btoconnor

brian@btoconnor.net>
- * Non-multipart encoding for POST requests
- * p.dobrogost http://code.google.com/u/@WBRSRlBZDhBFXQB6/
- * Code review, PEP8 compliance, benchmark fix
- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration
- * georgemarshall https://github.com/georgemarshall
- * Bugfixes, Improvements and Test coverage
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- * Python 3 support
- * brandon-rhodes http://rhodesmill.org/brandon
- * Design review, bugfixes, test coverage.
- * studer < theo.studer@gmail.com>
- * IPv6 url support and test coverage
- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections
- * hartator < hartator@gmail.com>
- * Corrected multipart behavior for params
- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite
- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.
- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions
- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification
- * Cory Benfield https://lukasa.co.uk/about/
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.
- * Jason Robinson < jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL
- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition
- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support
- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields
- * Martin von Gagern < Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters
- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts
- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire
- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality
- * Danilo @dbrgn
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module
- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors
- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier https://github.com/jschneier
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage
- * Tahia Khan http://tahia.tk/
- * Added Timeout examples in docs
- * Arthur Grunseid https://grunseid.com
- * source_address support and tests (with https://github.com/bui)
- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection
- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.
- * Krishna Prasad < kprasad.iitd@gmail.com>
- * Google App Engine documentation
- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url
- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes
- * Benjamen Meyer

 witness@yahoo.com>
- * Security Warning Documentation update for proper capture
- * Shivan Sornarajah < github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.
- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration
- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.
- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.
- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite
- * The a Flowers < magical girl@google.com >
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss https://github.com/talos
- * Clues to debugging problems with `cryptography` dependency in docs
- * Disassem https://github.com/Disassem
- * Fix pool-default headers not applying for url-encoded requests like GET.
- * James Atherfold < jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.
- * Christian Pedersen https://github.com/chripede
- * IPv6 HTTPS proxy bugfix
- * Jordan Moldow https://github.com/jmoldow
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.
- * Predrag Gruevski https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.
- * Adam Talsma https://github.com/a-tal>
- * Bugfix to ca cert file paths.
- * Evan Meagher https://evanmeagher.net
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter
- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance
- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.
- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.
- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported
- * David Foster http://dafoster.net/
- * Ensure order of request and response headers are preserved.
- * Jeremy Cline < jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.
- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in "stream" when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.
- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.
- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist
- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package
- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.
- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status forcelist retries.
- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring
- * Wolfgang Richter < wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller < github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appreyor tox setup to use the 64bit python.
- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018
- $* Dominique \ Leuenberger < dim star@opensuse.org >$
- * Minor fixes in the test suite
- * Will Bond <will@wbond.net>

- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry https://www.brucemerry.org.za
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade https://github.com/hugovk
- * Drop support for EOL Python 2.6
- * Tim Bell https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley https://github.com/jbramleycl
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA https://github.com/kyoshidajp
- * Remove Authorization header regardless of case when redirecting to cross-site
- * James Meickle https://permadeath.com/>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

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Upstream-Name: urllib3

Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>

Source: https://pypi.org/project/urllib3/

Files: *

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Files: src/urllib3/contrib/_securetransport/*

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Files: src/urllib3/packages/ssl match hostname/ init .py

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1.3 safeclib 4.0.0

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1.4 ply 3.11

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PLY (Python Lex-Yacc)

Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
 If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient,
 better suited to large grammars, and which has a number of nice
 properties when dealing with syntax errors and other parsing problems.
 Currently, PLY builds its parsing tables using the LALR(1)
 algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers.
 This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages.
 Although it is not ultra-fast due to its Python implementation,
 PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

import ply.lex as lex import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

import lex import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources

More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers: Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments

===========

A special thanks is in order for all of the students in CS326 who

suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

```
Special Note for PLY-3.0
```

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

======

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# ------
# calc.py
# A simple calculator with variables.
tokens = (
  'NAME', 'NUMBER',
 'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',
 'LPAREN', 'RPAREN',
# Tokens
t_PLUS = r'+'
t\_MINUS = r'-'
t\_TIMES = r' \
t_DIVIDE = r'/'
t_EQUALS = r'='
t\_LPAREN = r'\('
t_RPAREN = r' \rangle'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
def t_NUMBER(t):
 r' d+'
 t.value = int(t.value)
```

```
# Ignored characters
t_ignore = " \t"
def t_newline(t):
  r' n+'
  t.lexer.lineno += t.value.count("\n")
def t_error(t):
  print("Illegal character '%s" % t.value[0])
  t.lexer.skip(1)
# Build the lexer
import ply.lex as lex
lex.lex()
# Precedence rules for the arithmetic operators
precedence = (
  ('left','PLUS','MINUS'),
  ('left','TIMES','DIVIDE'),
  ('right', 'UMINUS'),
  )
# dictionary of names (for storing variables)
names = \{ \}
def p_statement_assign(p):
  'statement : NAME EQUALS expression'
  names[p[1]] = p[3]
def p_statement_expr(p):
  'statement: expression'
  print(p[1])
def p_expression_binop(p):
  "expression: expression PLUS expression
           | expression MINUS expression
           | expression TIMES expression
           | expression DIVIDE expression"
  if p[2] == '+' : p[0] = p[1] + p[3]
  elif p[2] == '-': p[0] = p[1] - p[3]
  elif p[2] == '*': p[0] = p[1] * p[3]
  elif p[2] == '/': p[0] = p[1] / p[3]
def p_expression_uminus(p):
  'expression : MINUS expression %prec UMINUS'
  p[0] = -p[2]
```

return t

```
def p_expression_group(p):
  'expression: LPAREN expression RPAREN'
  p[0] = p[2]
def p_expression_number(p):
  'expression: NUMBER'
  p[0] = p[1]
def p expression name(p):
  'expression: NAME'
  try:
    p[0] = names[p[1]]
  except LookupError:
    print("Undefined name '%s'" % p[1])
    p[0] = 0
def p error(p):
  print("Syntax error at '%s" % p.value)
import ply.yacc as yacc
yacc.yacc()
while True:
  try:
    s = raw_input('calc > ') # use input() on Python 3
  except EOFError:
    break
  yacc.parse(s)
```

Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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- $*/opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py$

1.5 python-pip 20.1.1

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

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

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Release	Deriv	ved	Year	O	wner	GPL-
	from			cc	ompatibl	e? (1)
2.5	2.4	200	5	PSF	yes	
2.5.1	2.5	200	7	PSF	yes	
2.5.2	2.5.1	200	80	PSF	yes	
2.5.3	2.5.2	200	80	PSF	yes	
2.6	2.5	200	8	PSF	yes	
2.6.1	2.6	200	8	PSF	yes	
2.6.2	2.6.1	200)9	PSF	yes	
2.6.3	2.6.2	200)9	PSF	yes	
2.6.4	2.6.3	200)9	PSF	yes	
2.6.5	2.6.4	20	10	PSF	yes	
3.0	2.6	200	8	PSF	yes	
3.0.1	3.0	200	19	PSF	yes	
3.1	3.0.1	200	19	PSF	yes	
3.1.1	3.1	200	19	PSF	yes	
3.1.2	3.1.1	20	10	PSF	yes	
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3.1.4	3.1.3	2011	PSF	yes
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-

0.9.0 thru	1.2	1991-1	995 CW	T yes	
1.3 thru 1.	5.2 1.2	1995-	NRI 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	5.1 2001	PSF	yes	
2.1.1	2.1+2.0	0.1 2001	PSF	yes	
2.2	2.1.1	2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes	
2.2.2	2.2.1	2002	PSF	yes	
2.2.3	2.2.2	2003	PSF	yes	
2.3	2.2.2	2002-20	03 PSF	yes	
2.3.1	2.3	2002-20	03 PSF	yes	
2.3.2	2.3.1	2002-20	003 PSF	yes	
2.3.3	2.3.2	2002-20	003 PSF	yes	
2.3.4	2.3.3	2004	PSF	yes	
2.3.5	2.3.4	2005	PSF	yes	
2.4	2.3	2004	PSF	yes	
2.4.1	2.4	2005	PSF	yes	
2.4.2	2.4.1	2005	PSF	yes	
2.4.3	2.4.2	2006	PSF	yes	
2.4.4	2.4.3	2006	PSF	yes	
2.5	2.4	2006	PSF	yes	
2.5.1	2.5	2007	PSF	yes	
2.5.2	2.5.1	2008	PSF	yes	
2.5.3	2.5.2	2008	PSF	yes	
2.6	2.5	2008	PSF	yes	
2.6.1	2.6	2008	PSF	yes	
2.6.2	2.6.1	2009	PSF	yes	
2.6.3	2.6.2	2009	PSF	yes	
2.6.4	2.6.3	2009	PSF	yes	
2.6.5	2.6.4	2010	PSF	yes	
2.7	2.6	2010	PSF	yes	

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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from					com	patibl	e? (1)
0.9.0 thru	ı 1.2	1	991-1	995	CW	I	yes
1.3 thru 1	1.5.2 1.2		1995-	199	9 CN	√RI	yes
1.6	1.5.2	20	000	Cì	NRI	no	
2.0	1.6	200	00	Be	Open.	com 1	no
1.6.1	1.6	20	01	Cì	NRI	yes	(2)
2.1	2.0+1.6	5.1	2001]	PSF	no)
2.0.1	2.0+1.6	5.1	2001		PSF	ye	es
2.1.1	2.1+2.0	0.1	2001		PSF	ye	es
2.2	2.1.1	20	01	PS	F	yes	
2.1.2	2.1.1	20	002	P	SF	yes	
2.1.3	2.1.2	20	002	P	SF	yes	
2.2.1	2.2	20	02	PS	F	yes	
2.2.2	2.2.1	20	002	P	SF	yes	
2.2.3	2.2.2	20	003	P	SF	yes	
2.3	2.2.2	20	02-20	03	PSF	ye	es
2.3.1	2.3	20	02-20	03	PSF	ye	es
2.3.2	2.3.1	20	002-20	003	PSF	У	res
2.3.3	2.3.2	20	002-20	003	PSF	У	res
2.3.4	2.3.3	20	004	P	SF	yes	
2.3.5	2.3.4	20	005	P	SF	yes	
2.4	2.3	200	04	PS	F	yes	
2.4.1	2.4	20	05	PS	F	yes	
2.4.2	2.4.1	20	005	P	SF	yes	
2.4.3	2.4.2	20	006	P	SF	yes	
2.4.4	2.4.3	20	006	P	SF	yes	
2.5	2.4	200	06	PS	F	yes	
2.5.1	2.5	20	07	PS	F	yes	
2.5.2	2.5.1	20	800	P	SF	yes	
2.5.3	2.5.2	20	800	P	SF	yes	
2.6	2.5	200	08	PS	F	yes	
2.6.1	2.6	20	80	PS	F	yes	
2.6.2	2.6.1	20	009	P	SF	yes	
2.6.3	2.6.2	20	009	P	SF	yes	

2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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1.7 idna 12.1.0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0 @item This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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

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

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

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

@item

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

@item

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

@item

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

@item

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

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

@end enumerate

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

@item

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.

@item

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.

@item

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

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

@enumerate a

@item

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.)

@item

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.

@item

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.

@item

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.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy. @end enumerate

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

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

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

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@var{signature of Ty Coon}, 1 April 1990Ty Coon, President of Vice@end smallexample

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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 - b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
 - c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
 - d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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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.

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

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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

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

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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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	from				compatible? (1)						
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1.3 thru 1	.5.2 1.2		1995-	1999	CN.	RI	yes				
1.6	1.5.2	20	000	CN	RI	no					
2.0	1.6	200	00	BeC	Open.c	om n	10				
1.6.1	1.6	20	001	CN	RI	yes	es (2)				
2.1	2.0+1.6	.1	2001	F	PSF	no					
2.0.1	2.0+1.0	5.1	2001]	PSF	ye	s				
2.1.1	2.1+2.0	0.1	2001]	PSF	ye	s				
2.1.2	2.1.1	20	002	PS	F	yes					
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1.17 libtool 0.1

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1.18 libcap 2.43

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1.20 libwww 5.4.2

1.20.1 Available under license:

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

Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source

code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while

preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.21 glib 2.64.5

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End

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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1.22 expat 2.2.9

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1.23 nettle 3.6

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The End

1.25 libusb-compat 0.1.7

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1.26 safestring 4.1.3

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SafeSting length(), trim()

by Matthew Ford

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```
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4.1.24/examples/SafeString Tests/SafeStringLengthTrim/SafeStringLengthTrim.ino
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/* SafeStringInClasses 1.ino
 Example of using SafeString for Class char[]s
by Matthew Ford
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download and install the SafeString library from Arduino library manager
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*/
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4.1.24/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino
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SafeString removeFrom(), removeBefore(), remove(), removeLast(), keepLast()
Examples of SafeString remove
by Matthew Ford
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*/
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4.1.24/examples/SafeString_Tests/SafeStringRemove/SafeStringRemove.ino
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SafeString startsWith(), startsWithIgnoreCase(), endsWithCharFrom() and endsWith()
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```
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4.1.24 / examples/SafeString\_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino
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SafeString from char[] constructor
Examples of how to create SafeStrings from an existing char[]
also see the SafeString_ConstructorAndDebugging, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize
examples
by Matthew Ford
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4.1.24/examples/SafeString_Tests/SafeStringFromCharArray/SafeStringFromCharArray.ino
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SafeString to Number conversion
Examples of SafeString to Number conversions and comparing these to the results from String methods
by Matthew Ford
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4.1.24/examples/SafeString_Tests/SafeStringToNum/SafeStringToNum.ino
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Test Errors for Assignment to SafeStrings using the = operator
by Matthew Ford
```

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4.1.24 / examples/SafeString\_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests. in our analysis of the property 
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  SafeString replace()
  Examples of SafeString replace for chars and strings
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 */
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4.1.24/examples/SafeString\_Tests/SafeStringReplace/SafeStringReplace.ino
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  Comparing SafeStrings
  Examples of how to compare SafeStrings using the comparison operators
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 */opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
4.1.24 / examples/Safe String\_Tests/Safe StringComparison Operators/Safe StringComparison Operators. in our discount of the comparison o
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  SafeString substring()
  Examples of SafeString substring
```

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- $4.1.24/examples/SafeString_Tests/SafeStringSubstring/SafeStringSubstring.ino$

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/* SafeStringWithArraysOfCstrings.ino
Example of using SafeString for working with char[][xx]

by Matthew Ford

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download and install the SafeString library from Arduino library manager or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html */

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SafeString charAt() and setCharAt()

Examples of how to get and set characters of a SafeString

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 $4.1.24/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters. in our content of the content of$

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/*

Appending to SafeStrings using the += operator and concat() Examples of how to append different data types to SafeStrings Also has examples of using hasError() method

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- */opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
- 4.1.24 / examples/SafeStringAssignmentAndConcatOperator/SafeStringAssignmentAndConcatOperator. In our analysis of the properties of the

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```
sfStream.ino
 SafeStringStream Unit test
 Example of using SafeStringStream
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4.1.24/examples/SafeStringStream_Tests/sfStream/sfStream.ino
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 Fixed 9 Formatting of double/float/long/ing
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4.1.24/examples/SafeString_Tests/SafeString_fixedWidthFormat/SafeString_fixedWidthFormat.ino
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4.1.24/examples/SafeString\_Tests/SafeStringIndexOf/SafeStringIndexOf. in our analysis of the property of the
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```

/*

SafeString readUntil, non-blocking until delimiter found

Example of how to use the non-blocking readUntil() method to parse a CSV line

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*/

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- 4.1.24/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino

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/*

SafeString from char* with specified size constructor

Examples of how to create SafeStrings from an existing pointer to a char[]

also see the SafeString_ConstructorAndDebugging, SafeStringFromCharArray and SafeStringFromCharPtr examples

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- 4.1.24/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino No license file was found, but licenses were detected in source scan.

/*

SafeString constructors and assignments

Examples of how to create SafeStrings and how to assign SafeStrings from other data types also see the SafeStringFromCharArray, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

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4.1.24/examples/SafeString_Tests/SafeString_ConstructorAndDebugging/SafeString_ConstructorAndDebugging.in
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SafeStringReader_GPS.ino
This example reads GPS data from a SafeStringStream continuously using a SafeStringReader
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*/
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4.1.24/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino
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SafeString from char* constructor
Examples of how to create SafeStrings from an existing pointer to a char[]
also see the SafeString_ConstructorAndDebugging, SafeStringFromCharArray and
SafeStringFromCharPtrWithSize examples
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*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
4.1.24/examples/SafeString_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino
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Tokenizing SafeStrings and converting to numbers
```

Examples of how to use the stoken and toLong() and toDouble() to parse a CSV line

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Tokenizing SafeStrings and converting to numbers
Examples of how to use the nextToken() and toLong() and toDouble() to parse a CSV line
by Matthew Ford
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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html
*/
Found in path(s):
*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
4.1.24/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
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Prefixing to SafeStrings using the -= operator and prefix()
Examples of how to prefix different data types to SafeStrings
by Matthew Ford
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Modified from String Examples by Tom Igoe
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Found in path(s):
*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
4.1.24/examples/SafeString_Tests/SafeStringPrefixOperator/SafeStringPrefixOperator.ino
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SafeStringReader_flushInput.ino
```

This example flushes any initial input and also starts flushing if "flush" is found in the text stream

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download and install the SafeString library from Arduino library manager or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

Found in path(s):

- */opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
- 4.1.24/examples/SafeStringReader_flushInput/SafeStringReader_flushInput.ino

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/*

SafeString Case changes

Examples of how to change the case of a SafeString

by Matthew Ford

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Found in path(s):

- */opt/cola/permits/1439711747 1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
- 4.1.24/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino No license file was found, but licenses were detected in source scan.

/*

Blink

Turns an led on for one second, then off for one second, repeatedly.

Most Arduinos have an on-board led you can control. On the UNO, MEGA and ZERO it is attached to digital pin 13, on MKR1000 on pin 6. led is set to the correct led pin independent of which board is used.

If you want to know what pin the on-board led is connected to on your Arduino model, check the Technical Specs of your board at:

https://www.arduino.cc/en/Main/Products

modified 8 May 2014 by Scott Fitzgerald modified 2 Sep 2016 by Arturo Guadalupi

```
modified 8 Sep 2016
by Colby Newman
```

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```
http://www.arduino.cc/en/Tutorial/Blink */
```

Found in path(s):

 $*/opt/cola/permits/1439711747_1665547780.0078397/0/s a fest ring-4-1-24-zip/Safe String-4-1-24-zip/Safe String-1$

4.1.24/examples/loopTimer_BlinkDelay/LoopTimer_BlinkDelay.ino No license file was found, but licenses were detected in source scan.

/*

OBD_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

by Matthew Ford

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download and install the SafeString library V4.0.0+ from Arduino library manager or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html $\sp{*/}$

Found in path(s):

*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-

4.1.24/examples/OBD Processor/OBD Processor.ino

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/*

SafeString.cpp V2.0.0 static memory SafeString library modified by Matthew Ford

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extensively modified from

WString.cpp - SafeString library for Wiring & Arduino ...mostly rewritten by Paul Stoffregen...

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```
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*/
Found in path(s):
*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-4.1.24/src/SafeString.cpp
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Appending to SafeStrings using print()/println()
Examples of how to use the standard print()/println() to append and format different data types to SafeStrings
by Matthew Ford
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Found in path(s):
*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
4.1.24/examples/SafeString\_Tests/SafeStringPrint/SafeStringPrint.ino\\
No license file was found, but licenses were detected in source scan.
SafeStringReader_Assign.ino
This example = to SafeStringReader
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or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html
*/
Found in path(s):
*/opt/cola/permits/1439711747_1665547780.0078397/0/safestring-4-1-24-zip/SafeString-
```

4.1.24/examples/SafeStringReader_Assign/SafeStringReader_Assign.ino

1.27 tdb 1.43

1.27.1 Available under license:

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Version 3, 29 June 2007

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1.28 bridgeutils 1.6-r0.22

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1.29 python-requests 2.23.0

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1.30 hd-parm 9.58

1.31 python3-asn1crypto 1.4.0

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1.32 jansson 2.11

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1.33 pam 1.3.1-r0

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1.34 autogen 4.2.8p15

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1.35 libusb-compat 0.1.7-r1

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1.39 libpcap 1.9.1

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1.42 cjson 1.3.2

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1.46 packaging 16.8

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1.47 python-setuptools 47.1.0

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1.48 pyasn1 0.4.8

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Metadata-Version: 1.2

Name: pyasn1 Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: https://github.com/etingof/pyasn1

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers Classifier: Intended Audience :: Education

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

- * Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

```
How to use pyasn1
_____
With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:
```bash
Record ::= SEQUENCE {
 INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
Could be expressed in pyasn1 like this:
```python
class Record(Sequence):
 componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
```

)

```
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
""python

>>> from pyasn1.codec.native.encoder import encode

>>> encode(record)

{'id': 123, 'room': 321, 'house': 0}

""

Or vice-versa -- you can initialize an ASN.1 structure from a tree of

Python objects:

""python

>>> from pyasn1.codec.native.decoder import decode

>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())

>>> str(record)

Record:
id=123
room=321

>>>
""
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could 'pip install pyasn1' or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or

post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1

[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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#### Found in path(s):

- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md No license file was found, but licenses were detected in source scan.
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- \*/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/\_\_main\_\_.py
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- 0.4.8/pyasn1/compat/dateandtime.py
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- \*/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
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- \*/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
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- 0.4.8/tests/codec/der/test\_encoder.py
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- $*/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py$
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- 0.4.8/tests/codec/native/test\_encoder.py

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

# ASN.1 library for Python ... toctree:: :maxdepth: 1

Abstract Syntax Notation One (`ASN.1

<a href="http://en.wikipedia.org/wiki/Abstract\_Syntax\_Notation\_1x>`\_)" is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <a href="https://pypi.org/project/pyasn1/"> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <a href="https://news.ycombinator.com/item?id=8871453">https://news.ycombinator.com/item?id=8871453</a> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <a href="https://developers.google.com/protocol-buffers/">https://developers.google.com/protocol-buffers/</a>`\_

or `FlatBuffers <a href="https://google.github.io/flatbuffers/"> \_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies

use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

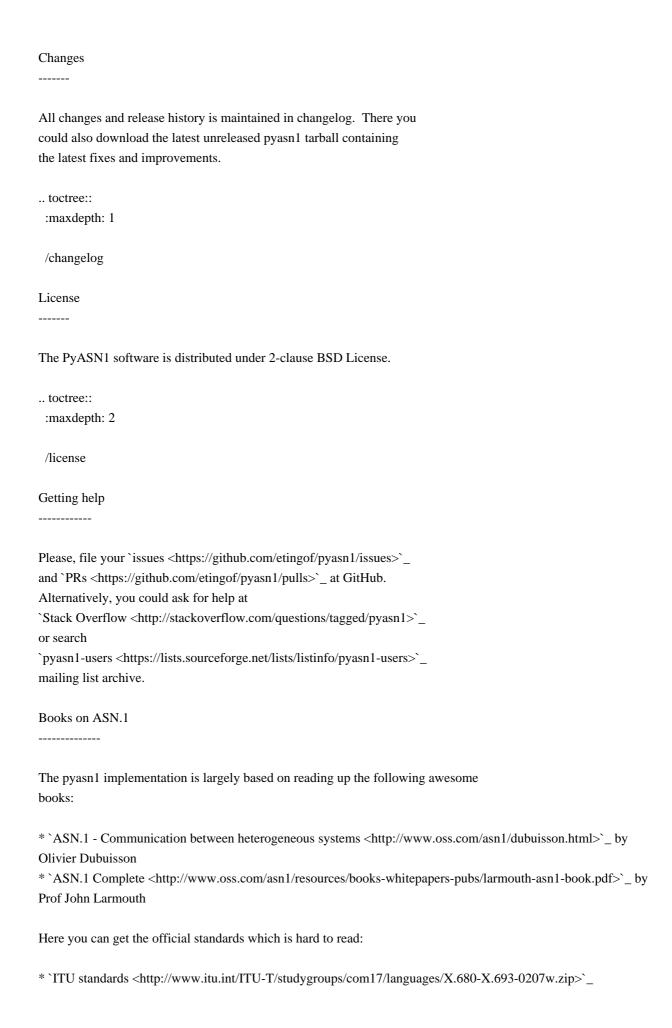
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Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <a href="http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>"> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation		
toctree::		
:maxdepth: 2		
/pyasn1/contents		
Use case		
toctree::		
:maxdepth: 2		
/example-use-case		
Download & Install		
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/download



On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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 $*/opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst$ 

# 1.49 libnsl 1.3.0-r0

## 1.49.1 Available under license:

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Version 2.1, February 1999

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## 1.52 pcre 8.44-r0

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THE BASIC LIBRARY FUNCTIONS

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

University of Cambridge Computing Service,

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## 1.53 zlib 1.2.5

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

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\*/

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## 1.54 libmnl 1.0.4-r0

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## 1.56 lua 2.1

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## 1.57 cffi 1.14.0

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# 1.59 ncurses 6.2

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Upstream source https://invisible-island.net/ncurses/ncurses.html This package is used for testing builds of ncurses.

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# 1.60 xz 5.2.5

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# 1.61 chardet 3.0.4

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# 1.62 gdbm 1.18.1

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# 1.63 nghttp2 1.41.0

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# 1.64 kmod 27-r0

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## 1.68 curl 7.72.0

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## 1.69 pycparser 2.20

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pycparser -- A C parser in Python

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## 1.70 procps 3.3.16-r0

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## **1.71 libgpg-error 1.39**

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## 1.72 elfutils 0.180

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

-----

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

-----

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan =20

-----

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679 UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

- > [mailto:cracklib-devel-bounces@li...] On Behalf Of
- > Mike Frysinger
- > Sent: Monday, October 01, 2007 8:15 PM
- > To: cracklib-devel@li...
- > Subject: [Cracklib-devel] cracklib license
- >=20
- > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
- > libraries under
- > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
- > -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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

the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license==20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of = a=20

library to dictact to application writes what license they should be using.= =20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

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

>-----Original Message----> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger

- > Sent: Monday, October 01, 2007 8:33 PM
- > To: Neulinger, Nathan
- > Cc: cracklib-devel@li...; Alec Muffett
- > Subject: Re: [Cracklib-devel] cracklib license
- >=20
- > On Monday 01 October 2007, Neulinger, Nathan wrote:
- >> I understand that, and you're welcome to bring it up with Alec
- > directly
- >> and see if he wants to relicense his code as LGPL... but at this
- > point.
- >> it was enough to just get it consistent and documented as to what
- > it was
- >> released under. This wasn't actually a license change, just a
- >> clarification of the licensing that was already in place.
- >=20
- > the original license (before moving to sourceforge -- aka, 2.7) was
- > not
- > GPL-2 ... it was a modified artistic license ... i didnt notice the
- > license
- > change until it was mentioned in the latest notes.
- >=20
- > unlike the old license, GPL-2 prevents people from using cracklib
- > unless their
- > applications are also GPL-2 which imo is just wrong. it isnt the
- > place of a
- > library to dictact to application writes what license they should
- > be using.
- > thus LGPL-2.1 enters to fill this void.
- > -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

- > Seems like the ideal thing here would be for you and the other distro
- > maintainers to get together with Alec in a conversation and come to a
- > decision as to what licensing scheme y'all want. I haven't really done
- > much other than cleaning up the packaging and patches and a small
- > bit of
- > additional code, so whatever licensing y'all come up with is fine

```
> by me.
```

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

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

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

Devin

\_\_

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

- >> Seems like the ideal thing here would be for you and the other distro
- >> maintainers to get together with Alec in a conversation and come to a
- >> decision as to what licensing scheme y'all want. I haven't really done
- >> much other than cleaning up the packaging and patches and a small
- >> bit of
- >> additional code, so whatever licensing y'all come up with is fine
- >> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

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

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

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the

which are included in Fedora. FWIW, I'd personally lean toward LGPL. In any case, I thank you both for working on sorting this out. Cheers, Nalin Re: [Cracklib-devel] cracklib license From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27 Attachments: Message as HTML On Monday 28 January 2008, Nalin Dahyabhai wrote: > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote: >>> Seems like the ideal thing here would be for you and the other distro >>> maintainers to get together with Alec in a conversation and come to a >>> decision as to what licensing scheme y'all want. I haven't really done >>> much other than cleaning up the packaging and patches and a small >>> bit of >>> additional code, so whatever licensing y'all come up with is fine >>> by me. >> I am sympathetic. Guys, what do you reckon? >> What I am hearing so far is that LGPL makes sense, since it can be >> linked with any code, not just GPL... > My apologies for not chiming in in anything resembling a reasonable > timeframe. > I'd also suggest the LGPL, for the reason you noted above. Alternately, > GPLv2 with the option of using the library under a later version of the > GPL would permit applications which were released under version 3 of the > GPL to use the library, too, which would be sufficient for the packages > which are included in Fedora. FWIW, I'd personally lean toward LGPL. > In any case, I thank you both for working on sorting this out. looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now? -mike Re: [Cracklib-devel] cracklib license From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

GPL to use the library, too, which would be sufficient for the packages

Open Source Used in secapp-utd 17.11.1a 723

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

```
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
 > the change now?
 yes. go for it. thanks++
 -a
 Re: [Cracklib-devel] cracklib license
 From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34
 Attachments: Message as HTML
 On Sunday 05 October 2008, Alec Muffett wrote:
 >>> In any case, I thank you both for working on sorting this out.
 >>
 >> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
 >> make the change now?
 >
 > yes. go for it. thanks++
 Nathan Neulinger is the only one who can actually make said change ...
 -mike
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.
```

From alecm@crypticide.com Mon Oct 1 12:26:03 2007 Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

```
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>: Mon. 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
> ----- Forwarded message -----
> From: Neulinger, Nathan < nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
```

> in the repository and clean up the repository/tarballs? I have all the

```
> original discussion, but something succinct and self contained
```

> would be

> ideal.

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

Happy now?:-)

-a

# 1.74 mpclib 1.2.0

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- 41. textmate/git.tmbundle (https://github.com/textmate/git.tmbundle)
- 42. textmate/groovy.tmbundle (https://github.com/textmate/groovy.tmbundle)
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- 54. textmate/yaml.tmbundle (https://github.com/textmate/yaml.tmbundle)
- 55. TypeScript-TmLanguage version 0.1.8 (https://github.com/Microsoft/TypeScript-TmLanguage)
- 56. vscode-swift version 0.0.1 (https://github.com/owensd/vscode-swift)

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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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\*/

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@c ispell-local-pdict: "ispell-dict"

@c End:

# 1.86 curl 7.54.1

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php\_curl, or with
an Apache+mod\_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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

# 1.88 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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```
*/
```

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-2	007

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Version 2, June 1991

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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#

# 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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Gaai	Oxman,	August	1995		

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- 1. [1] Takao Abe <takao\_abe@xurb.jp> Clock driver for JJY receivers
- 2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
- 3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- 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
- 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- 7. [8] Greg Brackley < greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recybuf and iosignal code into separate modules.
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- 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
- 11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- 12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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- 26. [27]Hans Lambermont Hans.Lambermont@nl.origin-it.com> or
  [28]</
- 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- 28. [30]Frank Kardel [31]<a href="kardel">kardel</a> (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support

- scripts, syslog cleanup, dynamic interface handling
- 29. [32]Johannes Maximilian Kuehn <a href="kuehn@ntp.org">kewrote sntp to comply with NTPv4 specification, ntpq saveconfig</a>
- 30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
- 31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- 32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- 33. [36]George Lindholm < lindholm@ucs.ubc.ca> SunOS 5.1 port
- 34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
- 35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
- 36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
- 37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
- 38. [41]Wolfgang Moeller < moeller@gwdgv1.dnet.gwdg.de> VMS port
- 39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
- 40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
- 41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
- 42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
- 43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
- 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
- 45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
- 46. [50] Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
- 47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
- 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- 49. [53]Ray Schnitzler < schnitz@unipress.com > Unixware1 port
- 50. [54] Michael Shields <shields@tembel.org> USNO clock driver
- 51. [55]Jeff Steinman < jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- 52. [56]Harlan Stenn <a href="mailto:sharlan@pfcs.com">harlan@pfcs.com</a>> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
- 53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
- 54. [58] Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
- 55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
- 56. [60]Brian Utterback <a href="mailto:strength">brian.utterback@oracle.com</a>> General codebase, Solaris issues
- 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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# 1.91 c-ares 1.16.1

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# 1.92 libusb 1.0.23

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# 1.93 luajit 2.1.0.beta3

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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# @heading TERMS AND CONDITIONS

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#### @item

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Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.99 zlib 1.2.11

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## 1.100 libmspack 0.5alpha

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## 1.101 gmp 6.2.0

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# NR START END SECTORS SIZE NAME UUID

- 1 32 7679 7648 3.7M 8f8378c0-01
- 2 7680 16383 8704 4.3M 8f8378c0-02
- 5 7936 12799 4864 2.4M
- 6 12544 16127 3584 1.8M

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## 1.104 libdaemon 0.14

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Version 2, June 1991

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## 1.114 bzip2 1.0.8

# 1.115 jsmn 6572217a0e71fdc13c9ea5571203187f383665e

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## 1.116 gnutls 3.6.14

## 1.116.1 Available under license:

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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\* @version 3.0 (December 2000)

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

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- \* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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