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1.6 bzip2 1.0.8

1.7 libdaemon 0.14 1.7.1 Available under license :

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1.8 jansson 2.11

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1.9 ndg-httpsclient 0.5.1

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 [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 recvbuf and iosignal code into separate modules.
- 8. [9]Marc Brett </ Arc.Brett@westgeo.com> Magnavox GPS clock driver
- 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- [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)
- 13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- 15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- 16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
- 17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
- [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
- 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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- 25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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- 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- 28. [30]Frank Kardel [31]<kardel (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 <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
- [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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- 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
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- 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 <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
- 53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
- 54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support

55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver

- 56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
- 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
- 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
- 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c

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1.16 pyasn1 0.4.8

1.16.1 Available under license :

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

Metadata-Version: 1.2 Name: pyasn1 Version: 0.4.8 Summary: ASN.1 types and codecs Home-page: https://github.com/etingof/pyasn1 Author: Ilya Etingof Author-email: etingof@gmail.com Maintainer: Ilya Etingof <etingof@gmail.com> License: BSD Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208) Platform: any Classifier: Development Status :: 5 - Production/Stable Classifier: Environment :: Console Classifier: Intended Audience :: Developers Classifier: Intended Audience :: Education Classifier: Intended Audience :: Information Technology Classifier: Intended Audience :: System Administrators Classifier: Intended Audience :: Telecommunications Industry Classifier: License :: OSI Approved :: BSD License Classifier: Natural Language :: English Classifier: Operating System :: OS Independent Classifier: Programming Language :: Python :: 2 Classifier: Programming Language :: Python :: 2.4 Classifier:

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py

 $* / opt/cola/permits/1110812511_1607462013.57 / 0 / py as n1-0-4-8-tar-gz / py as n1-0.4.8 / tests / test_debug.py = 0.4.8 / test_de$

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

0.4.8/pyasn1/compat/dateandtime.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

0.4.8/tests/codec/ber/test_encoder.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

0.4.8/py asn1/codec/native/encoder.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py

- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedval.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_opentype.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py

*

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/__main__.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/__main__.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py

 $* / opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/_main_.pyasn1-0.4.8/tests/codec/cer/_ma$

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_char.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py

 $*/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.pyasn1-0.4.8/pyasn1/codec/der/decoder.pyasn1-0.4.8/pyasn1-0.4.8/pyasn1/codec/der/decoder.pyasn1-0.4.8/pyasn1-0.4.8/pyasn1-0.4.8/pyasn1/codec/der/decoder.pyasn1-0.4.8/pyasn1$

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py

 $/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/_main_.pyasn1-0.4.8/tests/codec/der/_pyasn1-0.4.$

 $*/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0.4.8/test_binary.pyasn1-0$

 $*/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.pyasn1-0.4.8/pyasn1$

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py

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 $*/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/test_decoder.pyasn1-0.4.8/tes$

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*

 $/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py */opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py */opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0-4-8-ta$

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*

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0.4.8/tests/codec/native/test_encoder.py

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1) [![GitHub license](https://img.shields.io/badge/license-BSD-

blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs

as a Python package. It has been first written to support particular

protocol (SNMP) but then generalized to be suitable for a wide range

of protocols based on

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

Features

*

Generic implementation of ASN.1 types (X.208)

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

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

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

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
id INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0

Could be expressed in pyasn1 like this:

}

```
```python
class Record(Sequence):
 componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house'.
Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
 )
...
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python >>> from pyasn1.codec.der.decoder import decode >>> received\_record, rest\_of\_substrate = decode(substrate, asn1Spec=Record()) >>> >>> for field in received\_record: >>> print('{} is {}'.format(field, received\_record[field])) id is 123 room is 321 house is 0 >>> >>> record == received record True >>> received\_record.update(room=123) >>> substrate = encode(received\_record) >>> hexdump(substrate) 00000: 30 06 02 01 7B 80 01 7B ...

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

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

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

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

•••

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected 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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Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract\_Syntax\_Notation\_1x>`\_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`\_ library implements ASN.1 support in pure-Python.

What is ASN.1

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

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

widely used in industry and technology.

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

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

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

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

\* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

\* Serialisation protocols: the above data structures could be converted into a

series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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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 <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`\_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

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

Documentation

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.. toctree::

:maxdepth: 2

/pyasn1/contents

Use case

.. toctree::

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/example-use-case

Download & Install

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Changes

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All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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/changelog

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Getting help

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Please, file your `issues <https://github.com/etingof/pyasn1/issues>`\_ and `PRs <https://github.com/etingof/pyasn1/pulls>`\_ at GitHub. Alternatively, you could ask for help at

`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`\_ or search

`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`\_ mailing list archive. The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`\_ by Olivier Dubuisson

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Here you can get the official standards which is hard to read:

\* `ITU standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`\_

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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# 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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#### Introduction

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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'\('
t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
def t_NUMBER(t):
```

```
r'\d+'
t.value = int(t.value)
return t
```

```
Ignored characters
 t_ignore = " 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]
```

```
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

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
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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

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## 1.22 pexpect 4.8.0

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# 1.23 mpclib 1.2.1

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#### THE BASIC LIBRARY FUNCTIONS

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Written by:Philip HazelEmail local part:Philip.HazelEmail domain:gmail.com

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# 1.33 ncurses 6.3

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# **1.38 json-c 0.16** 1.38.1 Available under license :

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## 1.39 xdelta 3.1.0

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## 1.41 libnsl 2.0.0

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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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This option is useful when you wish to copy part of the code of the

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

#### b) Accompany the

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

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

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

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#### The

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A. HISTORY OF THE SOFTWARE

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

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

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

the PSF.

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

Release	Derive	ed Yea	r Ow	ner GPL-	
from			compatible? (1)		
0.9.0 thru	1.2	1991-1	1995 CW	/I yes	
1.3 thru 1.5.2 1.2 1995-1999 CNRI yes					
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpen	.com no	
1.6.1	1.6	2001	CNRI	yes (2)	
2.1	2.0+1.6.	1 2001	PSF	no	
2.0.1	2.0+1.6	5.1 2001	PSF	yes	
2.1.1	2.1 + 2.0	0.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	

2.2 and above 2.1.1 2001-now PSF yes

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF. All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Deriv	ved Yea	ur Ow	ner GPL-
	from		cor	npatible? (1)
0.9.0 thru			1995 CW	2
	1.5.2 1.2			NRI yes
1.6	1.5.2		CNRI	no
2.0	1.6	2000	-	.com no
1.6.1	1.6	2001	CNRI	yes (2)
2.1		.1 2001	PSF	no
2.0.1		5.1 2001		·
2.1.1		0.1 2001		yes
2.2	2.1.1		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		003 PSF	yes
2.3.1	2.3		003 PSF	2
2.3.2	2.3.1		003 PSF	2
2.3.3	2.3.2	2002-2	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
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
3.2	3.1	2010	PSF	yes

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	from		com	compatible? (1)		
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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes						
1.6	1.5.2	2000	CNRI	no		
2.0	1.6	2000	BeOpen.c	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		
2.1.2	2.1.1	2002	PSF	yes		
2.1.3	2.1.2	2002	PSF	yes		
2.2 and above						
2.1.1	2001-now	PSF	yes			

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\*

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\*

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pycparser -- A C parser in Python

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The End

### 1.58 glib 2.72.3

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### **1.59 hd-parm 9.64** 1.59.1 Available under license :

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# 1.63 xz 5.2.6

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

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sfStream.ino

SafeStringStream Unit test Example of using SafeStringStream

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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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SSring indexOf() and lastIndexOf()

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SafeString charAt() and setCharAt() Examples of how to get and set characters of a SafeString

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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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 $4.1.24 / examples / Safe String Reader_flush Input / Safe String Reader_flush Input. ino$ 

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### 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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 $4.1.24 / examples/SafeString\_ConstructorAndDebugging/SafeString\_ConstructorAndDebugging.in o$ 

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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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Fixed 9 Formatting of double/float/long/ing

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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

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SafeStringReader\_GPS.ino

This example reads GPS data from a SafeStringStream continuously using a SafeStringReader

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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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Prefixing to SafeStrings using the -= operator and prefix() Examples of how to prefix different data types to SafeStrings

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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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Appending to SafeStrings using print()/println() Examples of how to use the standard print()/println() to append and format different data types to SafeStrings

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OBD\_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

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#### SafeStringReader\_Assign.ino

This example = to SafeStringReader

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SafeString Case changes Examples of how to change the case of a SafeString

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# **1.77 libtool 0.1** 1.77.1 Available under license :

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## 1.80 libgpg-error 1.45

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@end enumerate

# @subheading END OF TERMS AND CONDITIONS

@page

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## 1.89 jemalloc 5.3.0

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# 1.94 curl 7.85.0

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## 1.95 hwloc 2.2.0

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#!/usr/bin/env bash

# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.

# This script will read the license file into memory, strip out the copyright, and then# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.set -e

calculate\_md5\_sum() {
 local FILE="\$1"

# Read the contents of the file into a variable
local raw\_license\_text=\$(<"\$FILE")</pre>

# Convert to lowercase
local lowercase\_license\_text="\${raw\_license\_text,,}"

# Remove anything before the beginning of the license local stripped\_license\_text=\$(awk '/permission is hereby granted,/{p=1} p' <<< "\$lowercase\_license\_text")</pre>

# Replace line breaks (Windows or Linux) with a single space local replaced\_linebreaks=\$(tr '\r\n' ' ' <<< "\$stripped\_license\_text")</pre>

# Replace multiple spaces with a single space
local normalized\_license\_text=\$(tr -s ' ' <<< "\$replaced\_linebreaks")</pre>

# Strip away any non-printable, non-whitespace characters
local clean\_unprintable\_license\_text=\$(tr
-cd '[:print:][:space:]' <<< "\$normalized\_license\_text")</pre>

# Remove punctuation and special characters
local clean\_license\_text=\$(echo "\$clean\_unprintable\_license\_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text local MD5SUM=\$(echo -n "\$clean\_license\_text" | md5sum | awk '{print \$1}')

```
Output the MD5 sum
echo "$MD5SUM"
}
```

```
Check if the FILE argument is provided
if [-z "$1"]; then
echo "Please provide a FILE as an argument."
exit 1
fi
```

# Invoke the function with the provided FILE argument calculate\_md5\_sum "\$1" WEV @@ WEV[B "1 x ?"U@,5 @mISmIN<GimCN7g1u|E 43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI A0mImImI... lost+found...

;9GimCN7g

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@ WEV[B "1

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# 1.98 python 3.10.6

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

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

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## 1.101 file 5.43

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# 1.102 e2fsprogs 1.43

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

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```
--- tdbsa.orig/tdb.c
```

+++ tdbsa/tdb.c

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

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

\*/ /\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

- -
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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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

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#

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```
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) $(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)
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```

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Theodore Ts'o 23-June-2007

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That's all there is to it!

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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# 1.106 c-ares 1.18.1

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## **1.107 perl 5.36.0** 1.107.1 Available under license :

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This is perl, v5.24.1 built for MSWin32-x86-multi-thread

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# 1.108 tcpdump 4.99.1

### 1.108.1 Available under license :

# -\*- perl -\*-

```
$testlist = [
This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
{
 config_unset => 'HAVE_NET_IF_PFLOG_H',
 name => 'heap-overflow-1',
 input => 'heap-overflow-1.pcap',
 output => 'heap-overflow-1.out',
 args => '-v'
 },
];
1;
License: BSD
```

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## 1.109 cracklib 2.9.8 1.109.1 Available under license :

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

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\_\_\_\_\_

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

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

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

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 th= 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.

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> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it 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 GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

>>> Seems like the ideal thing here would be for you and the other distro

>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done

>>> much other than cleaning up the packaging and patches and a small >>> bit of

>>> additional code, so whatever licensing y'all come up with is fine

>>> by me.

>>

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

>>

>> What I am hearing so far is that LGPL makes sense, since it can be

>> linked with any code, not just GPL...

>

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

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the

 $> \mbox{GPL}$  to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make > the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

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

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ... -mike

-----

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
```

> email

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

> original discussion, but something succinct and self contained

- > would be
- > ideal.

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

Happy now? :-)

-a

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# 1.114 cryptography 37.0.4

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### 1.116 libunwind 1.5

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## 1.118 kmod 30-r0

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# 1.119 snort 3.1.67.0

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