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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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1.2 pysmi-lexstudio 1.1.13

1.2.1 Available under license :

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* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/LICENSE.rst

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Metadata-Version: 2.1

Name: pysmi-lexstudio

Version: 1.1.13

Summary: A pure-Python implementation of SNMP/SMI MIB parsing and conversion library.

Home-page: <https://github.com/lexstudio/pysmi>

License: BSD-2-Clause

Author: Ilya Etingof

Author-email: etingof@gmail.com

Requires-Python: >=3.7,<4.0

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

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 :: 3

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Programming Language :: Python :: 3.11

Classifier: Topic :: Communications

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Requires-Dist: ply (>=3.11,<4.0)

Requires-Dist: requests (>=2.26.0,<3.0.0)

Project-URL: Repository, <https://github.com/lexstudio/pysmi>

Description-Content-Type: text/markdown

SNMP MIB parser

[!PyPI](<https://img.shields.io/pypi/v/pysmi-lexstudio.svg?maxAge=2592000>)](<https://pypi.org/project/pysmi-lexstudio/>)

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PySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](<https://github.com/lexstudio/pysnmp>) modules can be generated from ASN.1 MIBs.

Features

- * Understands SMIV1, SMIV2 and de-facto SMI dialects
- * Turns MIBs into pysnmp classes and JSON documents
- * Maintains an index of MIB objects over many MIB modules
- * Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
- * 100% Python, works with Python 3.7+

Rendered PySMI documentation can be found at [pysmi site](<https://www.pysnmp.com/pysmi>).

How to use PySMI

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still can do that manually by invoking *mibdump* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump* tool like this:

```
$ mibdump --generate-mib-texts --destination-format json IF-MIB
Source MIB repositories: file:///usr/share/snmp/mibs, https://mibs.pysnmp.com/asn1/@mib@
Borrow missing/failed MIBs from: https://mibs.pysnmp.com/json/fulltexts/@mib@
Existing/compiled MIB locations:
Compiled MIBs destination directory: .
MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI,
RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM
MIBs to compile: IF-MIB
Destination format: json
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
```

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:

JSON document build from

[IF-MIB module](<https://mibs.pysnmp.com/asn1/IF-MIB>)

would hold information such as:

```
{
  "ifMIB": {
    "name": "ifMIB",
    "oid": "1.3.6.1.2.1.31",
    "class": "moduleidentity",
    "revisions": [
      "2007-02-15 00:00",
      "1996-02-28 21:55",
      "1993-11-08 21:55"
    ]
  },
  ...
  "ifTestTable": {
    "name": "ifTestTable",
    "oid": "1.3.6.1.2.1.31.1.3",
    "nodetype": "table",
    "class": "objecttype",
    "maxaccess": "not-accessible"
  },
  "ifTestEntry": {
    "name": "ifTestEntry",
    "oid": "1.3.6.1.2.1.31.1.3.1",
    "nodetype": "row",
    "class": "objecttype",
    "maxaccess": "not-accessible",
    "augmentation": {
      "name": "ifTestEntry",
      "module": "IF-MIB",
      "object": "ifEntry"
    }
  },
  "ifTestId": {
    "name": "ifTestId",
    "oid": "1.3.6.1.2.1.31.1.3.1.1",
    "nodetype": "column",
```

```

    "class": "objecttype",
    "syntax": {
        "type": "TestAndIncr",
        "class": "type"
    },
    "maxaccess": "read-write"
},
...
}
```

```

In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](<https://mibs.pysnmp.com/json/fulltexts/IF-MIB.json>) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files.

For example, JSON index for

[IP-MIB.json](<https://mibs.pysnmp.com/json/asn1/IP-MIB>),

[TCP-MIB.json](<https://mibs.pysnmp.com/json/asn1/TCP-MIB>) and

[UDP-MIB.json](<https://mibs.pysnmp.com/json/asn1/UDP-MIB>)

modules would keep information like this:

```

...
{
 "compliance": {
 "1.3.6.1.2.1.48.2.1.1": [
 "IP-MIB"
],
 "1.3.6.1.2.1.49.2.1.1": [
 "TCP-MIB"
],
 "1.3.6.1.2.1.50.2.1.1": [
 "UDP-MIB"
]
 },
 "identity": {
 "1.3.6.1.2.1.48": [
 "IP-MIB"
],
 "1.3.6.1.2.1.49": [
 "TCP-MIB"
],
 "1.3.6.1.2.1.50": [
 "UDP-MIB"
]
 },
}

```

```

"oids": {
 "1.3.6.1.2.1.4": [
 "IP-MIB"
],
 "1.3.6.1.2.1.5": [
 "IP-MIB"
],
 "1.3.6.1.2.1.6": [
 "TCP-MIB"
],
 "1.3.6.1.2.1.7": [
 "UDP-MIB"
],
 "1.3.6.1.2.1.49": [
 "TCP-MIB"
],
 "1.3.6.1.2.1.50": [
 "UDP-MIB"
]
}
}
...

```

With this example, *\*compliance\** and *\*identity\** keys point to *\*MODULE-COMPLIANCE\** and *\*MODULE-IDENTITY\** MIB objects, *\*oids\** list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [\[here\]\(https://mibs.pysnmp.com/json/index.json\)](https://mibs.pysnmp.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including <https://mibs.pysnmp.com/asn1/>(<https://mibs.pysnmp.com/asn1/>)) for that purpose.

How to get PySMI

-----

The `pysmi` package is distributed under terms and conditions of 2-clause BSD [\[license\]\(https://www.pysnmp.com/pysmi/license.html\)](https://www.pysnmp.com/pysmi/license.html). Source code is freely available as a GitHub [\[repo\]\(https://github.com/lextudio/pysmi\)](https://github.com/lextudio/pysmi).

You could `pip install pysmi-lextudio`` or download it from [\[PyPI\]\(https://pypi.org/project/pysmi-lextudio/\)](https://pypi.org/project/pysmi-lextudio/).

If something does not work as expected, [\[open an issue\]\(https://github.com/lextudio/pysnmp/issues\)](https://github.com/lextudio/pysnmp/issues) at GitHub or post your question [\[on Stack Overflow\]\(https://stackoverflow.com/questions/ask\)](https://stackoverflow.com/questions/ask).

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### SNMP SMI compiler

=====

```
.. toctree::
 :maxdepth: 2
```

The PySMI library and tools are designed to parse, verify and transform `SNMP SMI <[https://en.wikipedia.org/wiki/Management\\_information\\_base](https://en.wikipedia.org/wiki/Management_information_base)>` \_ MIB modules from their original ASN.1 form into JSON or `pysnmp <<https://www.pysnmp.com/pysnmp/>>` \_ representation.

### Documentation

-----

```
.. toctree::
 :maxdepth: 2
```

/documentation

### Source code & Changelog

-----

Project source code is hosted at `GitHub <<https://github.com/lexstudio/pysmi>>` \_ . Everyone is welcome to fork and contribute back!

We maintain the detailed :doc:`log of changes </changelog>` to our software.

### Download & Install

-----

```
.. toctree::
 :maxdepth: 2
```

/download

### Changes

-----

```
.. toctree::
 :maxdepth: 1
```

/changelog

## License

-----

The SNMP SMI library software is distributed under 2-clause BSD License.

```
.. toctree::
 :maxdepth: 2
```

/license

## MIB files archive

-----

The PySMI project maintains a `collection <<https://mibs.pysnmp.com/asn1/>>` of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

The `*mibdump.py*` tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

## Contact

-----

In case of questions or troubles using SNMP SMI library, please open up an `issue <<https://github.com/lextudio/pysnmp/issues>>` at GitHub or ask at `Stack Overflow <<https://stackoverflow.com/questions/tagged/pysnmp>>` .

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```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/docs/source/index.rst
```

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## SNMP MIB parser

-----

```
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[![PyPI Downloads](https://img.shields.io/pypi/dd/pysmi-lextudio)](https://pypi.python.org/pypi/pysmi-lextudio/
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/lextudio/pysmi/master/LICENSE.rst)
```

PySMI is a pure-Python implementation of [SNMP SMI]([https://en.wikipedia.org/wiki/Management\\_information\\_base](https://en.wikipedia.org/wiki/Management_information_base)) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](<https://github.com/lexstudio/pysnmp>) modules can be generated from ASN.1 MIBs.

## Features

-----

- \* Understands SMIV1, SMIV2 and de-facto SMI dialects
- \* Turns MIBs into pysnmp classes and JSON documents
- \* Maintains an index of MIB objects over many MIB modules
- \* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
- \* 100% Python, works with Python 3.7+

Rendered PySMI documentation can be found at [pysmi site](<https://www.pysnmp.com/pysmi>).

## How to use PySMI

-----

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still can do that manually by invoking \*mibdump\* tool).

To turn ASN.1 MIB into a JSON document, call \*mibdump\* tool like this:

---

```
$ mibdump --generate-mib-texts --destination-format json IF-MIB
Source MIB repositories: file:///usr/share/snmp/mibs, https://mibs.pysnmp.com/asn1/@mib@
Borrow missing/failed MIBs from: https://mibs.pysnmp.com/json/fulltexts/@mib@
Existing/compiled MIB locations:
Compiled MIBs destination directory: .
MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI,
RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM
MIBs to compile: IF-MIB
Destination format: json
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
```

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:

---

JSON document build from

[IF-MIB module](<https://mibs.pysnmp.com/asn1/IF-MIB>)

would hold information such as:

---

```
{
 "ifMIB": {
 "name": "ifMIB",
 "oid": "1.3.6.1.2.1.31",
 "class": "moduleidentity",
 "revisions": [
 "2007-02-15 00:00",
 "1996-02-28 21:55",
 "1993-11-08 21:55"
]
 },
 ...
 "ifTestTable": {
 "name": "ifTestTable",
 "oid": "1.3.6.1.2.1.31.1.3",
 "nodetype": "table",
 "class": "objecttype",
 "maxaccess": "not-accessible"
 },
 "ifTestEntry": {
 "name": "ifTestEntry",
 "oid": "1.3.6.1.2.1.31.1.3.1",
 "nodetype": "row",
 "class": "objecttype",
 "maxaccess": "not-accessible",
 "augmentation": {
 "name": "ifTestEntry",
 "module": "IF-MIB",
 "object": "ifEntry"
 }
 },
 "ifTestId": {
 "name": "ifTestId",
 "oid": "1.3.6.1.2.1.31.1.3.1.1",
 "nodetype": "column",
```

```

 "class": "objecttype",
 "syntax": {
 "type": "TestAndIncr",
 "class": "type"
 },
 "maxaccess": "read-write"
},
...
}
```

```

In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](<https://mibs.pysnmp.com/json/fulltexts/IF-MIB.json>) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files.

For example, JSON index for

[IP-MIB.json](<https://mibs.pysnmp.com/json/asn1/IP-MIB>),

[TCP-MIB.json](<https://mibs.pysnmp.com/json/asn1/TCP-MIB>) and

[UDP-MIB.json](<https://mibs.pysnmp.com/json/asn1/UDP-MIB>)

modules would keep information like this:

```

...
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  },
}

```

```

"oids": {
  "1.3.6.1.2.1.4": [
    "IP-MIB"
  ],
  "1.3.6.1.2.1.5": [
    "IP-MIB"
  ],
  "1.3.6.1.2.1.6": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.7": [
    "UDP-MIB"
  ],
  "1.3.6.1.2.1.49": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.50": [
    "UDP-MIB"
  ]
}
}
...

```

With this example, **compliance** and **identity** keys point to **MODULE-COMPLIANCE** and **MODULE-IDENTITY** MIB objects, **oids** list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [\[here\]\(https://mibs.pysnmp.com/json/index.json\)](https://mibs.pysnmp.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including <https://mibs.pysnmp.com/asn1/>(<https://mibs.pysnmp.com/asn1/>)) for that purpose.

How to get PySMI

The `pysmi` package is distributed under terms and conditions of 2-clause BSD [\[license\]\(https://www.pysnmp.com/pysmi/license.html\)](https://www.pysnmp.com/pysmi/license.html). Source code is freely available as a GitHub [\[repo\]\(https://github.com/lextudio/pysmi\)](https://github.com/lextudio/pysmi).

You could ``pip install pysmi-lextudio`` or download it from [\[PyPI\]\(https://pypi.org/project/pysmi-lextudio/\)](https://pypi.org/project/pysmi-lextudio/).

If something does not work as expected, [\[open an issue\]\(https://github.com/lextudio/pysnmp/issues\)](https://github.com/lextudio/pysnmp/issues) at GitHub or post your question [\[on Stack Overflow\]\(https://stackoverflow.com/questions/ask\)](https://stackoverflow.com/questions/ask).

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* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/README.md

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```
'long_description': "\nSNMP MIB parser\n-----\n\n[PyPI](https://img.shields.io/pypi/v/pysmi-lexstudio.svg?maxAge=2592000)(https://pypi.org/project/pysmi-lexstudio)\n\n[PyPI Downloads](https://img.shields.io/pypi/dd/pysmi-lexstudio)(https://pypi.python.org/pypi/pysmi-lexstudio/)\n\n[Python Versions](https://img.shields.io/pypi/pyversions/pysmi-lexstudio.svg)(https://pypi.org/project/pysmi-lexstudio/)\n\n[GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)(https://raw.githubusercontent.com/lexstudio/pysmi/master/LICENSE.rst)\n\nPySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser.\n\nThis tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](https://github.com/lexstudio/pysnmp) modules can be generated from ASN.1 MIBs.\n\nFeatures\n-----\n\n* Understands SMIv1, SMIv2 and de-facto SMI dialects\n* Turns MIBs into pysnmp classes and JSON documents\n* Maintains an index of MIB objects over many MIB modules\n* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers\n* 100% Python, works with Python 3.7+\n\nRendered PySMI documentation can be found at [pysmi site](https://www.pysnmp.com/pysmi).\n\nHow to use PySMI\n-----\n\nIf you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still can do that manually by invoking *mibdump* tool).\n\nTo turn ASN.1 MIB into a JSON document, call *mibdump* tool like this:\n\n$ mibdump --generate-mib-texts --destination-format json IF-MIB\n\nSource MIB repositories: file:///usr/share/snmp/mibs, https://mibs.pysnmp.com/asn1/@mib@\n\nBorrow missing/failed MIBs from: https://mibs.pysnmp.com/json/fulltexts/@mib@\n\nExisting/compiled MIB locations: \n\nCompiled MIBs destination directory: \n\nMIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI, RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM\n\nMIBs to compile: IF-MIB\n\nDestination format: json\n\nParser grammar cache directory: not used\n\nAlso compile all relevant MIBs: yes\n\nRebuild MIBs regardless of age: yes\n\nDo not create/update MIBs: no\n\nByte-compile Python modules: no (optimization level no)\n\nIgnore compilation errors: no\n\nGenerate OID->MIB index: no\n\nGenerate texts in MIBs: yes\n\nKeep original texts layout: no\n\nTry various filenames while searching for MIB module: yes\n\nCreated/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB\n\nPre-compiled MIBs borrowed: \n\nUp to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC\n\nMissing source MIBs: \n\nIgnored MIBs: \n\nFailed MIBs: \n\nJSON document build from [IF-MIB module](https://mibs.pysnmp.com/asn1/IF-MIB)\n\nwould hold information such as:\n\n{\n  "ifMIB": {\n    "name": "ifMIB",\n    "oid": "1.3.6.1.2.1.31",\n    "class": "moduleidentity",\n    "revisions": [\n      "2007-02-15 00:00",\n      "1996-02-28 21:55",\n      "1993-11-08 21:55"\n    ],\n    "ifTestTable": {\n      "name": "ifTestTable",\n      "oid": "1.3.6.1.2.1.31.1.3",\n      "nodetype": "table",\n      "class": "objecttype",\n      "maxaccess": "not-accessible",\n      "ifTestEntry": {\n        "name": "ifTestEntry",\n        "oid": "1.3.6.1.2.1.31.1.3.1",\n        "nodetype": "row",\n        "class": "objecttype",\n        "maxaccess": "not-accessible",\n        "augmentation": {\n          "name": "ifTestEntry",\n          "module": "IF-MIB",\n          "object": "ifEntry"\n        },\n        "ifTestId": {\n          "name": "ifTestId",\n          "oid": "1.3.6.1.2.1.31.1.3.1.1",\n          "nodetype": "column",\n          "class": "objecttype",\n          "syntax": {\n            "type": "TestAndIncr",\n            "class": "type",\n            "maxaccess": "read-write"\n          },\n          ...\n        }\n      }\n    }\n  }\n}\n\nIn general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](https://mibs.pysnmp.com/json/fulltexts/IF-MIB.json)\n\nfile.\n\nBesides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB
```

files.
 For example, JSON index for [IP-MIB.json](https://mibs.pysnmp.com/json/asn1/IP-MIB), [TCP-MIB.json](https://mibs.pysnmp.com/json/asn1/TCP-MIB) and [UDP-MIB.json](https://mibs.pysnmp.com/json/asn1/UDP-MIB) modules would keep information like this:

```
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  },
  "oids": {
    "1.3.6.1.2.1.4": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.5": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.6": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.7": [
      "UDP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  }
}
```

With this example, *compliance* and *identity* keys point to *MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids* list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [here](https://mibs.pysnmp.com/json/index.json).
 The PySMI library can automatically fetch required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including https://mibs.pysnmp.com/asn1/) for that purpose.
 How to get PySMI
 The pysmi package is distributed under terms and conditions of 2-clause BSD [license](https://www.pysnmp.com/pysmi/license.html). Source code is freely available as a GitHub [repo](https://github.com/lextudiot/pysmi).
 You could pip install pysmi-lextudio or download it from [PyPI](https://pypi.org/project/pysmi-lextudio/).
 If something does not work as expected, open an issue https://github.com/lextudio/pysnmp/issues at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask).
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Found in path(s):

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/setup.py
```

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```
# License: https://www.pysnmp.com/pysmi/license.html
```

Found in path(s):

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/debug.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/parser/smiv2.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/tests/test_smiv1_smiv2_pysnmp.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/searcher/base.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/reader/localfile.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/reader/callback.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/borrower/anyfile.py
```

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lextudio-1-1-13-tar-gz/pysmi_lextudio-1.1.13/pysmi/scripts/mibcopy.py
```


- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/base.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/null.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/__init__.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/zipreader.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/__main__.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_moduleidentity_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/smiv1compat.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/dialect.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/lexer/smi.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_traptypes_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_notificationgroup_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_notificationtype_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_typedeclaration_smiv1_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_zipreader.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/url.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_typedeclaration_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/__init__.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/borrower/__init__.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/borrower/pyfile.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/smi.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/symtable.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/stub.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_valuedeclaration_smiv2_pysnmp.py
- * /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/jsondoc.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/base.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/__init__.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/writer/base.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/base.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/compiler.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/lexer/__init__.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/pypackage.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/lexer/base.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/smiv1.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/writer/callback.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/compat.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/__init__.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_imports_smiv2_pysnmp.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_modulecompliance_smiv2_pysnmp.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/scripts/mibdump.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/pyfile.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/writer/pyfile.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/codegen/pysnmp.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/writer/__init__.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_objectidentity_smiv2_pysnmp.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/null.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_objectgroup_smiv2_pysnmp.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/error.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/anyfile.py

* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_agentcapabilities_smiv2_pysnmp.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/mibinfo.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/borrower/base.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_objecttype_smiv2_pysnmp.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/httpclient.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/writer/localfile.py

1.3 openssl 3.1.0

1.3.1 Available under license :

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1.4 tomcrypt 1.18.2

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1.5 zstd 1.5.2

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```

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```
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```

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1.6 idna 15.0.0

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1.7 charset-normalizer 3.1.0

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1.8 idna 3.4

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1.9 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

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

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Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

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ASN.1 library for Python

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

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

Features

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

Why using pyasn1

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

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

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

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

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python

prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

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

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

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

```
id=123
room=321
>>>
...

```

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

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

```

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

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

```

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

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

```

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

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

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

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

How to get pyasn1

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

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

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/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/pyasn1/codec/native/encoder.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/__main__.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/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
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
- * /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__.py
- * /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.py
- * /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__.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
- * /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
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
- * /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
- * /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/pyasn1/codec/ber/eoo.py
- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/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/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test_encoder.py

```

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

ASN.1 library for Python

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```

Abstract Syntax Notation One (ASN.1)

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

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

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application

and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

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

ASN.1 gotchas

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

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

Documentation

```
.. toctree::  
    :maxdepth: 2
```

[/pyasn1/contents](#)

Use case

```
.. toctree::  
    :maxdepth: 2
```

[/example-use-case](#)

Download & Install

```
.. toctree::  
    :maxdepth: 2
```

[/download](#)

Changes

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

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.. toctree::  
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```

[/changelog](#)

License

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.. toctree::  
    :maxdepth: 2
```

```
/license
```

Getting help

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.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>` _ by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` _ by Prof John Larmouth

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.

Found in path(s):

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

1.10 pycparser 2.21

1.10.1 Available under license :

pycparser -- A C parser in Python

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1.11 libffi 3.4.2

1.11.1 Available under license :

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msvcc.sh and testsuite/libffi.bhaible are both distributed under the terms of the GNU GPL version 2, as below.

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Version 2, June 1991

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1.12 python-setuptools 65.6.3

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The End

1.16 sqlite 3.42.0

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1.18 xz 5.2.6

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1.19 rich 11.0.0

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1.25 wcmath 0.2.6

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.26 zlib 1.2.5

1.26.1 Available under license :

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

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1.27 typing-extensions 4.6.3

1.27.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|-----------------|
| | from | | | compatible? (1) |

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

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

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1.28 parso 0.8.3

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1.29 zlib 1.2.12

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* zlib.h -- interface of the 'zlib' general purpose compression library
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jloup@gzip.org madler@alumni.caltech.edu

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

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1.30 libyaml 0.1.7

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1.31 fastapi 0.98.0

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1.32 colorama 0.4.4

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1.33 telnetlib3 2.0.2

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1.34 webencodings 0.5.1

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```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
```

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\s]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```



```

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

```

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: me@gsnedders.com

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
<<http://encoding.spec.whatwg.org/>>`_.

* Latest documentation: <http://packages.python.org/webencodings/>

* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

* PyPI releases: <http://pypi.python.org/pypi/webencodings>

* License: BSD

* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence

over any other encoding declaration.

The Encoding standard defines all such details so that implementations do

not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

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0.5.1/webencodings.egg-info/PKG-INFO

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
```

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```
"""
```

```
webencodings.mklables
```

```
~~~~~
```

Regenerate the webencodings.labels module.

```
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```

```
:license: BSD, see LICENSE for details.
```

```
"""
```

```
import json
```

```
try:
```

```
    from urllib import urlopen
```

```
except ImportError:
```

```
    from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
    assert string == string.lower()
```

```
    return string
```

```
def generate(url):
```

```
    parts = ["\
```

```
"""
```

```
webencodings.labels
```

```
~~~~~
```

Map encoding labels to their name.

```
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```

```
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```

```
"""
```

```
# XXX Do not edit!
```

```
# This file is automatically generated by mklables.py
```

```
LABELS = {
```

```
    ""
```

```
    labels = [
```

```

    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}')
return ".join(parts)

```

```

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

```

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
 <<http://encoding.spec.whatwg.org/>>`_.

- * Latest documentation: <http://packages.python.org/webencodings/>
- * Source code and issue tracker:
<https://github.com/gsnedders/python-webencodings>
- * PyPI releases: <http://pypi.python.org/pypi/webencodings>
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- * Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,
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 as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
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1.35 markupsafe 2.1.3

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* /opt/cola/permits/1704515681_1685745549.3697858/0/pallets-markupsafe-2-1-3-0-g496112e-tar-gz/pallets-markupsafe-d40f713/setup.cfg

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1.36 hypercorn 0.14.3

1.36.1 Available under license :

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1.37 zlib 1.2.3

1.37.1 Available under license :

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

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1.38 openssl 3.1.1

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1.40 futures 3.3.0

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1.41 wsproto 1.2.0

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1.42 importlib-metadata 6.0.0

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1.43 aiosignal 1.3.1

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1.44 pyopenssl 23.2.0

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1.45 tcl 8.6.12

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1.46 python-lxml 4.9.2

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The isoschematron implementation uses several XSL and RelaxNG resources:

- * The (XML syntax) RelaxNG schema for schematron, copyright International Organization for Standardization (see src/lxml/isoschematron/resources/rng/iso-schematron.rng for the license text)

- * The skeleton iso-schematron-xslt1 pure-xslt schematron implementation xsl stylesheets, copyright Rick Jelliffe and Academia Sinica Computing Center, Taiwan (see the xsl files here for the license text: src/lxml/isoschematron/resources/xsl/iso-schematron-xslt1/)

- * The xsd/rng schema schematron extraction xsl transformations are unlicensed and copyright the respective authors as noted (see src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl)

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1.50 starlette 0.27.0

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1.51 file 5.39

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1.52 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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Introduction

=====

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

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers.

This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

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

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

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

```
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

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1.53 jedi 0.18.2

1.53.1 Available under license :

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1.54 python-pip 22.0.4

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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 | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 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 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | 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 |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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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 \$
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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.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
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| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
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| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
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| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
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| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
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| 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 |
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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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 | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
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1.55 zlib 1.2.13

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1.56 asn1 2.7.0

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1.57 h2 4.1.0

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1.58 sniffio 1.3.0

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1.59 async-timeout 4.0.2

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1.60 ncurses 6.4

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Files: doc/html/NCURSES-Programming-HOWTO.html

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-- \$Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp \$
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1.61 urllib3 1.26.6-1.ph1

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1.62 ptpython 3.0.23

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1.63 psutil 5.9.5

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1.64 httpx 0.24.1

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1.65 zstd 0.18.0

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1.66 pysnmp-lexstudio 5.0.28

1.66.1 Available under license :

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Metadata-Version: 2.1
Name: pysnmp-lexstudio
Version: 5.0.28
Summary:
Home-page: <https://github.com/lexstudio/pysnmp>
License: BSD-2-Clause
Author: Ilya Etingof
Author-email: etingof@gmail.com
Requires-Python: >=3.7,<4.0
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Programming Language :: Python :: 3.11
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Requires-Dist: pyasn1 (>=0.4.8,<0.5.0)
Requires-Dist: pysmi-lexstudio (>=1.0.4,<2.0.0)
Requires-Dist: pysnmpcrypto (>=0.0.4,<0.0.5)
Project-URL: Repository, <https://github.com/lexstudio/pysnmp>
Description-Content-Type: text/markdown

SNMP Library for Python

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This is a pure-Python, open source and free implementation of v1/v2c/v3
SNMP engine distributed under 2-clause [BSD license](https://www.pysnmp.com/pysnmp/license.html).

The PySNMP project was initially sponsored by a [PSF](http://www.python.org/psf/) grant.
Thank you!

This version is a fork of Ilya Etingof's project [etingof/pysnmp](https://github.com/etingof/pysnmp). Ilya sadly passed away on 10-Aug-2022. Announcement [here](https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html). His work is still of great use to the Python community and he will be missed.

Features

- * Complete SNMPv1/v2c and SNMPv3 support
- * SMI framework for resolving MIB information and implementing SMI Managed Objects
- * Complete SNMP entity implementation
- * USM Extended Security Options support (3DES, 192/256-bit AES encryption)
- * Extensible network transports framework (UDP/IPv4, UDP/IPv6)
- * Asynchronous socket-based IO API support
- * [Asyncio](https://docs.python.org/3/library/asyncio.html) integration
- * [PySMI](https://www.pysnmp.com/pysmi/) integration for dynamic MIB compilation
- * Built-in instrumentation exposing protocol engine operations
- * Python eggs and py2exe friendly

- * 100% Python, works with Python 3.7+
- * MT-safe (if SnmpEngine is thread-local)

Features, specific to SNMPv3 model include:

- * USM authentication (MD5/SHA-1/SHA-2) and privacy (DES/AES) protocols (RFC3414, RFC7860)
- * View-based access control to use with any SNMP model (RFC3415)
- * Built-in SNMP proxy PDU converter for building multi-lingual SNMP entities (RFC2576)
- * Remote SNMP engine configuration
- * Optional SNMP engine discovery
- * Shipped with standard SNMP applications (RFC3413)

Download & Install

The PySNMP software is freely available for download from [PyPI](https://pypi.python.org/pypi/pysnmp-lexstudio) and [GitHub](https://github.com/lexstudio/pysnmp.git).

Just run:

```
```bash
$ pip install pysnmp-lexstudio
```
```

To download and install PySNMP along with its dependencies:

```
<!-- Need to find an alternate location for the links to pysnmp.com -->
* [PyASN1](https://pyasn1.readthedocs.io)
* [PySMI](https://www.pysnmp.com/pysmi/) (required for MIB services only)
* Optional [pysnmppcrypto](https://github.com/etingof/pysnmppcrypto) package
whenever strong SNMPv3 encryption is desired
```

Besides the library, command-line [SNMP utilities](https://github.com/lexstudio/snmpclitools) written in pure-Python could be installed via:

```
```bash
$ pip install snmpclitools-lexstudio
```
```

and used in the very similar manner as conventional Net-SNMP tools:

```
```bash
$ snmpget.py -v3 -l authPriv -u usr-md5-des -A authkey1 -X privkey1 demo.pysnmp.com sysDescr.0
SNMPv2-MIB::sysDescr.0 = STRING: Linux zeus 4.8.6.5-smp #2 SMP Sun Nov 13 14:58:11 CDT 2016 i686
```
```

Examples

PySNMP is designed in a layered fashion. Top-level and easiest to use API is known as *hlapi*. Here's a quick example on how to SNMP GET:

```
```python
from pysnmp.hlapi import *

iterator = getCmd(SnmpEngine(),
 CommunityData('public'),
 UdpTransportTarget(('demo.pysnmp.com', 161)),
 ContextData(),
 ObjectType(ObjectIdentity('SNMPv2-MIB', 'sysDescr', 0)))

errorIndication, errorStatus, errorIndex, varBinds = next(iterator)

if errorIndication: # SNMP engine errors
 print(errorIndication)
else:
 if errorStatus: # SNMP agent errors
 print('%s at %s' % (errorStatus.prettyPrint(), varBinds[int(errorIndex)-1] if errorIndex else '?'))
 else:
 for varBind in varBinds: # SNMP response contents
 print(' '.join([x.prettyPrint() for x in varBind]))
...
```
```

This is how to send SNMP TRAP:

```
```python
from pysnmp.hlapi import *

errorIndication, errorStatus, errorIndex, varBinds = next(
 sendNotification(
 SnmpEngine(OctetString(hexValue='8000000001020304')),
 UsmUserData('usr-sha-aes128', 'authkey1', 'privkey1',
 authProtocol=usmHMACSHAAuthProtocol,
 privProtocol=usmAesCfb128Protocol),
 UdpTransportTarget(('demo.pysnmp.com', 162)),
 ContextData(),
 'trap',
 NotificationType(ObjectIdentity('SNMPv2-MIB', 'authenticationFailure'))
)
)

if errorIndication:
 print(errorIndication)
...
```
```

- > We maintain publicly available SNMP Agent and TRAP sink at
- > [demo.pysnmp.com](https://www.pysnmp.com/snmpsim/public-snmp-agent-simulator.html). You are
- > welcome to use it while experimenting with whatever SNMP software you deal with.

```

```bash
$ python3 examples/hlapi/asyncore/sync/manager/cmdgen/usm-sha-aes128.py
SNMPv2-MIB::sysDescr.0 = SunOS zeus.pysnmp.com 4.1.3_U1 1 sun4m
$
$ python3 examples/hlapi/asyncore/sync/agent/ntforg/v3-inform.py
SNMPv2-MIB::sysUpTime.0 = 0
SNMPv2-MIB::snmpTrapOID.0 = SNMPv2-MIB::warmStart
SNMPv2-MIB::sysName.0 = system name
```

```

Other than that, PySNMP is capable to automatically fetch and use required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including [this one](https://github.com/lextudio/mibs.snmplabs.com/tree/master/asn1)) for that purpose.

For more example scripts please refer to [examples section](https://www.pysnmp.com/pysnmp/examples/index.html#high-level-snmp) at pysnmp web site.

Documentation

Library documentation and examples can be found at the [pysnmp project site](https://www.pysnmp.com/pysnmp/).

If something does not work as expected, please [open an issue](https://github.com/lextudio/pysnmp/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pysnmp [mailing list archives](https://sourceforge.net/p/pysnmp/mailman/pysnmp-users/).

Bug reports and PRs are appreciated! ;-)

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```

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/PKG-INFO

```

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```

'long_description': "\nSNMP Library for Python\n-----
\n\n[!PyPI](https://img.shields.io/pypi/v/pysnmp-lextudio.svg)(https://pypi.python.org/pypi/pysnmp-lextudio)\n[!PyPI Downloads](https://img.shields.io/pypi/dd/pysnmp-

```

[lexstudio](https://pypi.python.org/pypi/pysnmp-lexstudio/))(<https://pypi.python.org/pypi/pysnmp-lexstudio/>)\n[Python Versions](<https://img.shields.io/pypi/pyversions/pysnmp-lexstudio.svg>)(<https://pypi.python.org/pypi/pysnmp-lexstudio/>)\n[GitHub license](<https://img.shields.io/badge/license-BSD-blue.svg>)(<https://raw.githubusercontent.com/lexstudio/pysnmp/master/LICENSE.rst>)\n\nThis is a pure-Python, open source and free implementation of v1/v2c/v3\nSNMP engine distributed under 2-clause [BSD license](<https://www.pysnmp.com/pysnmp/license.html>).\n\nThe PySNMP project was initially sponsored by a [PSF](<http://www.python.org/psf/>) grant.\nThank you!\n\nThis version is a fork of Ilya Etingof's project [etingof/pysnmp](<https://github.com/etingof/pysnmp>). Ilya sadly passed away on 10-Aug-2022. Announcement [here](<https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html>). His work is still of great use to the Python community and he will be missed.\n\nFeatures\n-----\n\n* Complete SNMPv1/v2c and SNMPv3 support\n* SMI framework for resolving MIB information and implementing SMI\n Managed Objects\n* Complete SNMP entity implementation\n* USM Extended Security Options support (3DES, 192/256-bit AES encryption)\n* Extensible network transports framework (UDP/IPv4, UDP/IPv6)\n* Asynchronous socket-based IO API support\n* [Asyncio](<https://docs.python.org/3/library/asyncio.html>) integration\n* [PySMI](<https://www.pysnmp.com/pysmi/>) integration for dynamic MIB compilation\n* Built-in instrumentation exposing protocol engine operations\n* Python eggs and py2exe friendly\n* 100% Python, works with Python 3.7+\n* MT-safe (if SnmpEngine is thread-local)\n\nFeatures, specific to SNMPv3 model include:\n\n* USM authentication (MD5/SHA-1/SHA-2) and privacy (DES/AES) protocols (RFC3414, RFC7860)\n* View-based access control to use with any SNMP model (RFC3415)\n* Built-in SNMP proxy PDU converter for building multi-lingual\n SNMP entities (RFC2576)\n* Remote SNMP engine configuration\n* Optional SNMP engine discovery\n* Shipped with standard SNMP applications (RC3413)\n\n\nDownload & Install\n-----\n\n\nThe PySNMP software is freely available for download from [PyPI](<https://pypi.python.org/pypi/pysnmp-lexstudio/>)\nand [GitHub](<https://github.com/lexstudio/pysnmp.git>).\n\nJust run:\n\n```\nbash\n\$ pip install pysnmp-lexstudio\n```\n\nTo download and install PySNMP along with its dependencies:\n\n```\nbash\n\$ pip install pysnmp-lexstudio\n```\n\nNeed to find an alternate location for the links to pysnmp.com -->\n\n* [PyASN1](<https://pyasn1.readthedocs.io/>)\n* [PySMI](<https://www.pysnmp.com/pysmi/>) (required for MIB services only)\n* Optional [pysnmpcrypto](<https://github.com/etingof/pysnmpcrypto>) package\n whenever strong SNMPv3 encryption is desired\n\nBesides the library, command-line [SNMP utilities](<https://github.com/lexstudio/snmpclitools>)\nwritten in pure-Python could be installed via:\n\n```\nbash\n\$ pip install snmpclitools-lexstudio\n```\n\nand used in the very similar manner as conventional Net-SNMP tools:\n\n```\nbash\n\$ snmpget.py -v3 -l authPriv -u usr-md5-des -A authkey1 -X privkey1 demo.pysnmp.com sysDescr.0\nSNMPv2-MIB::sysDescr.0 = STRING: Linux zeus 4.8.6.5-smp #2 SMP Sun Nov 13 14:58:11 CDT 2016 i686\n```\n\nExamples\n-----\n\n\nPySNMP is designed in a layered fashion. Top-level and easiest to use API is known as\n*hlapi*. Here's a quick example on how to SNMP GET:\n\n```\npython\nfrom pysnmp.hlapi import *\niterator = getCmd(SnmpEngine(),\nCommunityData('public'),\nUdpTransportTarget(('demo.pysnmp.com', 161)),\nContextData(),\nObjectType(ObjectIdentity('SNMPv2-MIB', 'sysDescr', 0)))\nerrorIndication, errorStatus, errorIndex, varBinds = next(iterator)\nif errorIndication: # SNMP engine errors\nprint(errorIndication)\nelse: # SNMP agent errors\nif errorStatus: # SNMP agent errors\nprint('%s at %s' % (errorStatus.prettyPrint(), varBinds[int(errorIndex)-1] if errorIndex else '?'))\nelse:\nfor varBind in varBinds:\n# SNMP response contents\nprint(' '.join([x.prettyPrint() for x in varBind]))\n```\n\nThis is how to send SNMP TRAP:\n\n```\npython\nfrom pysnmp.hlapi import *\nerrorIndication, errorStatus, errorIndex, varBinds = next(\n sendNotification(\n SnmpEngine(OctetString(hexValue='800000001020304')), \nUsmUserData('usr-sha-aes128', 'authkey1', 'privkey1'), \n authProtocol=usmHMACSHAAuthProtocol,\n privProtocol=usmAesCfb128Protocol), \nUdpTransportTarget(('demo.pysnmp.com', 162)), \nContextData(), \n'trap', \nNotificationType(ObjectIdentity('SNMPv2-MIB', 'authenticationFailure'))\n)\n)\nif errorIndication: \nprint(errorIndication)\n```\n\n\nWe maintain publicly available SNMP Agent and TRAP sink at\n> [demo.pysnmp.com](<https://www.pysnmp.com/snmpsim/public-snmp-agent-simulator.html>). You are\n> welcome to use it while experimenting with whatever SNMP software you deal with.\n\n```\nbash\n\$ python3

examples/hlapi/asyncore/sync/manager/cmdgen/usm-sha-aes128.py\nSNMPv2-MIB::sysDescr.0 = SunOS zeus.pysnmp.com 4.1.3_U1 1 sun4m\n\$\n\$ python3 examples//hlapi/asyncore/sync/agent/ntforg/v3-inform.py\nSNMPv2-MIB::sysUpTime.0 = 0\nSNMPv2-MIB::snmpTrapOID.0 = SNMPv2-MIB::warmStart\nSNMPv2-MIB::sysName.0 = system name\n```\n\nOther than that, PySNMP is capable to automatically fetch and use required MIBs from HTTP, FTP sites\nor local directories. You could configure any MIB source available to you (including\nthis one)(<https://github.com/lexstudio/mibs.snmplabs.com/tree/master/asn1>) for that purpose.\n\nFor more example scripts please refer to [examples section](<https://www.pysnmp.com/pysnmp/examples/index.html#high-level-snmplib>)\nat pysnmp web site.\n\nDocumentation\n-----\n\nLibrary documentation and examples can be found at the [pysnmp project site](<https://www.pysnmp.com/pysnmp/>).\n\nIf something does not work as expected, please\n[open an issue](<https://github.com/lexstudio/pysnmp/issues>) at GitHub or\npost your question [on Stack Overflow](<http://stackoverflow.com/questions/ask>) or try browsing pysnmp\n[mailing list archives](<https://sourceforge.net/p/pysnmp/mailman/pysnmp-users/>).\n\nBug reports and PRs are appreciated! ;-)\n\nCopyright (c) 2005-2019, [Ilya Etingof](<https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html>).\n\nCopyright (c) 2022, [LeXtudio Inc](mailto:support@lexstudio.com).\n\nAll rights reserved.\n",

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```
* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/setup.py
```

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Found in path(s):

```
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```

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Further development

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library

+++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would

be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

****Done:**** see `PySMI project <<https://www.pysnmp.com/pysmi/>>`_ in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools

+++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

****Done:**** see `SNMP Proxy Forwarder <<https://www.pysnmp.com/snmpfwd/>>`_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

****Done:**** since `\snmpsim-0.2.4 <https://www.pysnmp.com/snmpsim/>`_``

If you need some particular feature - please, `\open a feature request <https://github.com/lextudio/pysnmp/issues/new>`_``. Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed code to run with Python 3.7 through the latest Python version (which is 3.11 at the time of this writing). Contributed code will be redistributed under the terms of the same `\license <https://www.pysnmp.com/pysnmp/>`_`` as PySNMP is.

Found in path(s):

* `/opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/docs/source/development.rst`

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Found in path(s):

* `/opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/pysnmp/carrier/asyncsock/dispatch.py`

* `/opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/pysnmp/error.py`

* `/opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/pysnmp/smi/error.py`

* `/opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/pysnmp/hlapi/__init__.py`

- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/dgram/udp.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/_PYSNMP-USM-MIB.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/proxy/rfc2576.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/__init__.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/INET-ADDRESS-MIB.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/ntfrcv.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/PYSNMP-MIB.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/PYSNMP-USM-MIB.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/sockmsg.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/debug.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc2576.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/_SNMPv2-MIB.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/rfc1902.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/sync/ntforg.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/mibvar.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/ASN1-ENUMERATION.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/auth/hmacsha.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/context.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc1901.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/api/__init__.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/__init__.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/eso/priv/aes256.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncio/__init__.py
- * /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/dispatch.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/sockfix.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc1155.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/base.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/cmdrsp.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/ntforg.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc1157.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/config.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/dgram/udp6.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/cmdgen.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/priv/des.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/auth/hmacmd5.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/auth/noauth.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/dgram/unix.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/localkey.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/_SNMP-USER-BASED-SM-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/auth/base.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asynsock/dgram/udp.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asynsock/dgram/unix.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/api/v1.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/api/v2c.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/ASN1-REFINEMENT.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/cache.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/eso/priv/des3.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMPv2-TC.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/examples/smi/manager/builder.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/context.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/__SNMP-FRAMEWORK-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/service.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMPv2-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/indices.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/error.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/exval.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-MPD-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc7860/auth/hmacsha2.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/RFC1158-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asynsock/dgram/udp6.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/varbinds.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/errind.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/priv/nopriv.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/oneliner/ntforg.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/TRANSPORT-ADDRESS-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/mpmod/rfc2576.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/acmod/rfc3415.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/base.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3414/priv/base.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc1905.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncio/ntforg.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncio/slim.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/auth.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/ASN1.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/instrum.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncore/dgram/udp6.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMPv2-TM.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/RFC1213-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/cmdgen.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc3412.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/mpmod/rfc3412.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/__SNMP-TARGET-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/eso/priv/aesbase.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/ntforg.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-FRAMEWORK-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/api/verdec.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/sync/__init__.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/sync/cmdgen.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/mpmod/base.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-USER-BASED-SM-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-PROXY-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/entity/rfc3413/oneliner/cmdgen.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/secmod/rfc3826/priv/aes.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-TARGET-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/lcd.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc3411.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMP-NOTIFICATION-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/SNMPv2-SMI.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/rfc1902.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/view.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/sync/compat/ntforg.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/__SNMP-MPD-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/mpmod/cache.py

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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/cache.py

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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/smi/mibs/instances/__SNMP-VIEW-BASED-ACM-MIB.py

* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/proto/acmod/void.py

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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/sync/compat/cmdgen.py


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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncore/transport.py
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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/carrier/asyncio/base.py
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* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/pysnmp/hlapi/asyncio/cmdgen.py
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1.67 tabulate 0.9.0

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1.68 ncclient 0.6.13

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1.70 tk 8.6.12

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1.71 zstd 1.5.5

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1.72 libxml2 2.9.12

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1.73 bzip2 1.0.8

1.74 distlib 0.3.3

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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 | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 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 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | 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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=====
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=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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- Pior Bastida

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1.76 wheel 0.40.0

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1.78 cffi 1.15.1

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1.79 python-certifi 2023.05.07

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

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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 \$

1.80 libxml2 2.9.14

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1.81 python-certifi 2023.5.7

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<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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.

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1.82 pygments 2.15.1

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New ports collection makefile for: python25\n' Comment

Date created: 3 July 2003\n' Comment

Whom: Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

#\n' Comment

\$FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp \$\n' Comment

\n' Text.Whitespace

'PORTNAME' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python25' Text

\n' Text.Whitespace

'PORTVERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'2' Literal.Number

'.5.1' Text

\n' Text.Whitespace

'CATEGORIES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'lang' Text

' ' Text.Whitespace

'python' Text

' ' Text.Whitespace

'ipv6' Text

\n' Text.Whitespace

'MASTER_SITES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_MASTER_SITES' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_MASTER_SITE_SUBDIR' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'DISTFILES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_DISTFILE' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python@FreeBSD.org' Text

'\n' Text.Whitespace

'COMMENT' Name.Variable

'?=' Operator

'\t' Text.Whitespace

'An' Text

'' Text.Whitespace

'interpreted' Text

'' Text.Whitespace

'object-oriented' Text

'' Text.Whitespace

'programming' Text

'' Text.Whitespace

'language' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'DIST_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python' Text

'\n' Text.Whitespace

'WRKSRC' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.static' Text

'\n' Text.Whitespace

'PATCH_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'GNU_CONFIGURE' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'CONFIGURE_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace

'--build' Text

'=' Operator

'\${' Literal.String.Interpol

'MACHINE_ARCH' Name.Variable

'}' Literal.String.Interpol

'-portbld-freebsd' Text

'\${' Literal.String.Interpol

'OSREL' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable

'=' Operator

'\t' Text.Whitespace

'../configure' Text

' ' Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable

'=' Operator
'\t' Text.Whitespace
'OPT' Name.Variable
'=' Operator
""" Literal.String.Double
'\${' Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
' ' Text.Whitespace
'SVNVERSION' Name.Variable
'=' Operator
"echo freebsd" Literal.String.Double
'\n' Text.Whitespace

'MAKE_ENV' Name.Variable

'=' Operator
'\t' Text.Whitespace
'VPATH' Name.Variable
'=' Operator
""" Literal.String.Double
'\${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable

'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable

'=' Operator
'\t' Text.Whitespace
'altinstall' Text
'\n' Text.Whitespace

'MAN1' Name.Variable

'=' Operator
'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.1' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python2.5' Text

'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.shared' Text

'\n' Text.Whitespace

'PLIST' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/PLIST' Text

'\n' Text.Whitespace

'PLIST_TEMPLATE' Name.Variable

'?=' Operator

'\${' Literal.String.Interpol

'PKGDIR' Name.Variable

'}' Literal.String.Interpol
 '/pkg-plist' Text
 '\n' Text.Whitespace

 'PLIST_SUB' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 'PYVER' Name.Variable
 '=' Operator
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 '/python/' Punctuation
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 'PYVER_WITHPAT' Name.Variable
 '=' Operator
 '\${' Literal.String.Interpol
 'PORTVERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 '/.c/c/' Punctuation
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

 'DEMODIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/share/examples/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

 'TOOLS DIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/share/' Text

```

'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

'\n'     Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'idle'   Text
''       Text.Whitespace
'pydoc'  Text
''       Text.Whitespace
'python' Text
''       Text.Whitespace
'python-shared' Text
''       Text.Whitespace
'smtpd.py' Text
''       Text.Whitespace
'python-config' Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'python-shared-config' Text
'\n'     Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,smtpd,smtpd${PYTHON_VER}," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER}," Literal.String.Single
'\n\n'   Text.Whitespace

'OPTIONS' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'THREADS' Text
''       Text.Whitespace

```

```

""Enable thread support"" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'HUGE_STACK_SIZE' Text
''      Text.Whitespace
""Use a larger thread stack"" Literal.String.Double
''      Text.Whitespace
'off'   Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'UCS4'  Text
''      Text.Whitespace
""Use UCS4 for unicode support"" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'PYMALLOC' Text
''      Text.Whitespace
""Use python\s internal malloc"" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'IPV6'  Text
''      Text.Whitespace
""Enable IPv6 support"" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'FPECTL' Text
''      Text.Whitespace
""Enable floating point exception handling"" Literal.String.Double
''      Text.Whitespace
'off'   Text

```

```

\n\n'    Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

\n'      Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'  Name.Variable
'='       Operator
'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'       Literal.String.Interpol
'.1'      Text
''        Text.Whitespace
'python.1' Text
\n'       Text.Whitespace

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'IF_DEFAULT' Name.Variable
'='       Operator
''''      Literal.String.Double
\n'       Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'IF_DEFAULT' Name.Variable
'='       Operator
'"@comment "' Literal.String.Double
\n'       Text.Whitespace

'.endif\n' Comment.Preproc

\n'       Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'  Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'-D__wchar_t' Text
'='       Operator

```



```

'wchar_t' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--with-threads' Text
'\n' Text.Whitespace

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x100000' Text
'\n' Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'LDFLAGS' Name.Variable
'=' Operator

```

```

"""      Literal.String.Double
'${'     Literal.String.Interpol
'PTHREAD_LIBS' Name.Variable
'}'     Literal.String.Interpol
''      Literal.String.Double
'${'     Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'     Literal.String.Interpol
"""     Literal.String.Double
'\n'    Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='    Operator
'\t'    Text.Whitespace
'--without-threads' Text
'\n'    Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='    Operator
'\t\t'  Text.Whitespace
'LDFLAGS' Name.Variable
'='     Operator
"""     Literal.String.Double
'${'     Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'     Literal.String.Interpol
"""     Literal.String.Double
'\n'    Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'    Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='    Operator
'\t'    Text.Whitespace
'--enable-unicode' Text
'='     Operator
'ucs4'  Text
'\n'    Text.Whitespace

```

```

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text.Whitespace
'--without-pymalloc' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

```

```

'.else\n'    Comment.Preproc

'PLIST_SUB' Name.Variable
'+='       Operator
' '        Text.Whitespace
'32BIT_ONLY' Name.Variable
'='        Operator
''''       Literal.String.Double
'\n'       Text.Whitespace

'.endif\n'  Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS'   Name.Variable
'+='       Operator
' '        Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='        Operator
'900'      Literal.Number
'\n'       Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'       Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='       Operator
'\t'       Text.Whitespace
'NO_NIS'   Name.Variable
'='        Operator
'"@comment "' Literal.String.Double
'\n'       Text.Whitespace

'.else\n'   Comment.Preproc

'PLIST_SUB' Name.Variable
'+='       Operator
'\t'       Text.Whitespace
'NO_NIS'   Name.Variable
'='        Operator
'""'       Literal.String.Double
'\n'       Text.Whitespace

'.endif\n'  Comment.Preproc

```

```

\n'      Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--enable-ipv6' Text
\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--disable-ipv6' Text
\n'      Text.Whitespace

'.endif\n' Comment.Preproc

\n'      Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--with-fpectl' Text
\n'      Text.Whitespace

'.endif\n' Comment.Preproc

\n'      Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
''        Text.Whitespace
'plat-freebsd5' Text
''        Text.Whitespace
'plat-freebsd6' Text
\n'      Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

```

```

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd5' Text
'' Text.Whitespace
'plat-freebsd7' Text
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd6' Text
'' Text.Whitespace
'plat-freebsd7' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'pre-patch' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Modules' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-e' Text
'' Text.Whitespace

```

```

"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single
''      Text.Whitespace
\\n'    Literal.String.Escape

\t't'   Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Tools/scripts/pydoc' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/pydoc2.5' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single
''      Text.Whitespace
\\n'    Literal.String.Escape

\t't'   Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Tools/scripts/idle' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/idle2.5' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single
''      Text.Whitespace

```

```

'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/smtpd.py' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR' Name.Variable
'}'      Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
"'s,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'\s^\(\ *prefixes = .*\)\)\$\$\\1, "${X11BASE}"\]|g\" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace

```



```

'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
"s\^t\((.ASDLGEN.*\))\${t${TRUE}}g" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
"s\*\((.INSTALL_SCRIPT.*\))python-config\$\$/port \1" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${'      Literal.String.Interpol
'SED'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text

```

```

''      Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION}|" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/'      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'     Text
''      Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/'      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'     Punctuation
'S'     Name.Variable

```

```

/thon/thon-shared/ Punctuation
'}'      Literal.String.Interpol
'-config' Text
'\n\n'   Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Modules' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'ECHO'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
''      Text.Whitespace
'>>'    Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'post-configure' Name.Function
':'     Operator
'\n'     Text.Whitespace

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable

```

```

'}'      Literal.String.Interpol
''       Text.Whitespace
'-cf'    Text
''       Text.Whitespace
'-'      Text
''       Text.Whitespace
':'      Text
''       Text.Whitespace
'|'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-C'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-xf'    Text
''       Text.Whitespace
'-'      Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'LN'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-sf'    Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib'   Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib'   Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'s,^\(LDLIBRARY=\).*$,\\1libpython$(VERSION).so,'" Literal.String.Single
''       Text.Whitespace

```

```

'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$(VERSION)," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$(CCSHARED)," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\((BUILDPYTHON)\\):.*\\).(LIBRARY),\\1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\((BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'      Literal.String.Interpol

```

'/Makefile' Text
'\n\n' Text.Whitespace

'pre-build' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace
'cd' Name.Builtin
'' Text.Whitespace
'\${' Literal.String.Interpol
'SHARED_WKSR' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
'' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'SETENV' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'\${' Literal.String.Interpol
'MAKE_ENV' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'\${' Literal.String.Interpol
'MAKE' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'' Text.Whitespace
'python' Text
';' Punctuation
'' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-f' Text
'' Text.Whitespace

'lib' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so' Text
 '' Text.Whitespace
 'lib' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so.1' Text
 ';' Punctuation
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'LN' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-f' Text
 '' Text.Whitespace
 'python' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 '/thon/thon-shared/' Punctuation
 '}' Literal.String.Interpol
 '\n\n' Text.Whitespace

 'pre-su-install' Name.Function
 ':' Operator
 '\n' Text.Whitespace

 '.for platform in \${PLATFORMS}\n' Comment.Preproc

 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'MKDIR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHONPREFIX_LIBDIR' Name.Variable
 '}' Literal.String.Interpol
 '/' Text
 '\${' Literal.String.Interpol

```

'platform' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

'\t'     Text.Whitespace
'${}'    Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${}'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/'  Text
'${}'    Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'/'      Text
'${}'    Literal.String.Interpol
'file'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${}'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
'/'      Text
'${}'    Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'/'      Text
'\n'     Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n'     Text.Whitespace

'pre-install' Name.Function
':'      Operator
'\n'     Text.Whitespace

'\t'     Text.Whitespace
'${}'    Literal.String.Interpol

```



```
'CAT'      Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'${'      Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'|'       Punctuation
''        Text.Whitespace
'${'      Literal.String.Interpol
'AWK'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'\{ print $0; } \\n\t/LIBDIR.*\\.py$$/ && !\\/bad/ { print $0 "o"; print $0 "c"; }\' Literal.String.Single
\t'       Text.Whitespace
>'        Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'PLIST'   Name.Variable
'}'       Literal.String.Interpol
'\n\n'    Text.Whitespace
```

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

```
\t'       Text.Whitespace
 '('      Operator
 '['      Operator
 ''       Text.Whitespace
 '-f'     Text
 ''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/.without_own_sha' Text
''       Text.Whitespace
']'      Operator
''       Text.Whitespace
'&&'     Operator
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'GREP'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-v'     Text
''       Text.Whitespace
```

```

"lib-dynload/_sha" Literal.String.Single
' ' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'.tmp' Text
' ' Text.Whitespace
'&&' Operator
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'.tmp' Text
' ' Text.Whitespace
'>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
')' Operator
' ' Text.Whitespace
'||' Operator
' ' Text.Whitespace
'${' Literal.String.Interpol
'TRUE' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text.Whitespace

'post-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t@# install config providers\n' Comment

'\t' Text.Whitespace

```

```

'${'    Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/'      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX'  Name.Variable
'}'     Literal.String.Interpol
'/bin'   Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/'      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'-config' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX'  Name.Variable
'}'     Literal.String.Interpol
'/bin'   Text
'\n\n'  Text.Whitespace

\t@# shared version of executable and library\n' Comment

\t'     Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol

```

'SHARED_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/lib' Text

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.so.1' Text

'' Text.Whitespace

'\\n' Literal.String.Escape

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PREFIX' Name.Variable

'}' Literal.String.Interpol

'/lib' Text

'\n\t' Text.Whitespace

'cd' Name.Builtin

'' Text.Whitespace

'\${' Literal.String.Interpol

'PREFIX' Name.Variable

'}' Literal.String.Interpol

'/lib' Text

':' Punctuation

'' Text.Whitespace

'\${' Literal.String.Interpol

'LN' Name.Variable

'}' Literal.String.Interpol

'' Text.Whitespace

'-sf' Text

'' Text.Whitespace

'lib' Text

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.so.1' Text

'' Text.Whitespace

'\\n' Literal.String.Escape

'\t\t' Text.Whitespace

'lib' Text

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.so' Text

'\n\t' Text.Whitespace

'\${' Literal.String.Interpol

'LN' Name.Variable

'}' Literal.String.Interpol

```

''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/lib/lib' Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
'/config' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WKSRRC' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'     Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/bin'  Text
'\n\n'  Text.Whitespace

'\t@# additional files installing by ports\n' Comment

'\t'    Text.Whitespace
'${'    Literal.String.Interpol

```

'INSTALL_SCRIPT' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'WRKDIR' Name.Variable
 '}' Literal.String.Interpol
 '/pydoc2.5' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'WRKDIR' Name.Variable
 '}' Literal.String.Interpol
 '/idle2.5' Text
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'WRKDIR' Name.Variable
 '}' Literal.String.Interpol
 '/smtpd2.5.py' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/bin' Text
 '\n' Text.Whitespace
 '@' Text
 '\${' Literal.String.Interpol
 'MKDIR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'MANPREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/man/man1' Text
 '\n' Text.Whitespace
 '\${' Literal.String.Interpol
 'INSTALL_MAN' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_WKSRRC' Name.Variable
 '}' Literal.String.Interpol
 '/Misc/python.man' Text
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace

```

'${'      Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'      Literal.String.Interpol
'/man/man1/' Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'     Text
'\n\n'   Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'     Text.Whitespace
'for'    Keyword
''      Text.Whitespace
'f'      Text
''      Text.Whitespace
'in'     Keyword
''      Text.Whitespace
'${'     Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'     Literal.String.Interpol
';'     Punctuation
''     Text.Whitespace
'do'    Keyword
''     Text.Whitespace
'\\\n'  Literal.String.Escape

'\t\t'   Text.Whitespace
'TARGET' Name.Variable
'='     Operator
'^'     Literal.String.Backtick
'${'    Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'$$'   Name.Variable
'f'    Text
''     Text.Whitespace
'|'    Punctuation
''     Text.Whitespace
'${'   Literal.String.Interpol
'SED'  Name.Variable
'}'   Literal.String.Interpol
''    Text.Whitespace
'-E'  Text
''    Text.Whitespace
'${'  Literal.String.Interpol

```

'BINLINKS_SUB' Name.Variable
'}' Literal.String.Interpol
`' Literal.String.Backtick
';' Punctuation
'' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'cd' Name.Builtin
'' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'' Text.Whitespace
'&&' Operator
'' Text.Whitespace
'\${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-f' Text
'' Text.Whitespace
'\$\$' Name.Variable
'TARGET' Text
'' Text.Whitespace
'\$\$' Name.Variable
'f' Text
';' Punctuation
'' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'done' Keyword
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t' Text.Whitespace
'@' Text
'\${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace

'\${' Literal.String.Interpol
 'TOOLS DIR' Name.Variable
 '}' Literal.String.Interpol
 '\n\t' Text.Whitespace
 '@cd' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_WKSR C' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-cf' Text
 '' Text.Whitespace
 '-' Text
 '' Text.Whitespace
 'Tools' Text
 '' Text.Whitespace
 '|' Punctuation
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 '(' Operator
 'cd' Name.Builtin
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TOOLS DIR' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-xf' Text
 '' Text.Whitespace
 '-' Text
 ')' Operator
 '\n\t' Text.Whitespace
 '@' Text
 '\${' Literal.String.Interpol
 'MKDIR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace

'\${' Literal.String.Interpol
 'DEMODIR' Name.Variable
 '}' Literal.String.Interpol
 '\n\t' Text.Whitespace
 '@cd' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_WKSRRC' Name.Variable
 '}' Literal.String.Interpol
 '/Demo' Text
 ';' Punctuation
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-cf' Text
 '' Text.Whitespace
 '-' Text
 '' Text.Whitespace
 '*' Text
 '' Text.Whitespace
 '|' Punctuation
 '' Text.Whitespace
 '\\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 '(' Operator
 'cd' Name.Builtin
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'DEMODIR' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-xf' Text
 '' Text.Whitespace
 '-' Text
 ')' Operator
 '\n' Text.Whitespace

 '.endif\n' Comment.Preproc

 '\n\t' Text.Whitespace

```
'@'      Text
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
```

1.83 sqlalchemy 1.3.24

1.83.1 Available under license :

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1.84 pep517 0.12.0

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1.85 httpcore 0.17.2

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1.86 libiconv 1.17

1.86.1 Available under license :

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

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

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

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"Installation Information" for a User Product means any methods,

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```

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```
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    " "
    " " <program> Copyright
(C) <year> <name of author>
    " " This program comes with ABSOLUTELY NO WARRANTY;
for details type `show w'.
    " " This is free software, and you are welcome to redistribute it
    " " under
certain conditions; type `show c' for details.
    " "
    " "
    "The hypothetical commands `show w' and `show c' should show the appropriate
    " "parts of the General Public
License. Of course, your program's commands
    " "might be different; for a GUI interface, you would use an
`about box`.
    " "
    " " You should also get your employer (if
you work as a programmer) or school,
    " "if any, to sign a `copyright disclaimer` for the program, if necessary.
    " "For more information on this, and how to apply and follow the GNU GPL, see
    " "
    "<http://www.gnu.org/licenses/>.
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    " "may consider it more useful to permit linking proprietary
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    " "the library. If this is what you want to do, use the GNU Lesser General
    " "Public
License instead of this License. But first, please read
    " "<http://www.gnu.org/philosophy/why-not-
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    " "
    "]"
```

1.88 packaging 20.4

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Its the spiritual successor of [characteristic](https://characteristic.readthedocs.io/) and aspires to fix some of it clunkiness and unfortunate decisions.

Both were inspired by Twisted

[FancyEqMixin](https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html) but both are

implemented using class decorators because [subclassing is bad for you](https://www.youtube.com/watch?v=3MNVP9-hg1c), mkyk?

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1.96 html5lib 1.1

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1.97 multidict 6.0.4

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1.98 appdirs 1.4.4

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1.99 msgpack 1.0.3

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1.100 tenacity 7.0.0

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1.101 ptyprocess 0.7.0

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1.102 python-certifi 2021.10.08

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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 SSLCertificateFile.#

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

1.103 libsodium 1.0.18

1.103.1 Available under license :

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1.104 yarl 1.9.2

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1.108 libyaml 0.2.5

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1.109 dns-python 2.3.0

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A. HISTORY OF THE SOFTWARE

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

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

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

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | 1.2 | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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1.113 zlib 1.2.8

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1.114 urllib3 2.0.3

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1.115 six 1.16.0

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1.116 python-requests 2.27.1

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1.117 enum-compat 0.0.3

1.117.1 Available under license :

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Metadata-Version: 1.1

Name: enum-compat

Version: 0.0.3

Summary: enum/enum34 compatibility package

Home-page: <https://github.com/jstasiak/enum-compat>

Author: Jakub Stasiak

Author-email: jakub@stasiak.at

License: MIT

Description:

enum-compat

=====

This is a virtual package, its whole purpose is to install enum34 on Python older than 3.4. On Python 3.4+ it's a no-op.

Keywords: enum,compatibility,enum34

Platform: UNKNOWN

Classifier: Intended Audience :: Developers

Classifier: Topic :: Software Development :: Libraries

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

* /opt/cola/permits/1160336726_1673902146.5400865/0/enum-compat-0-0-3-tar-gz/enum-compat-

0.0.3/enum_compat.egg-info/PKG-INFO

* /opt/cola/permits/1160336726_1673902146.5400865/0/enum-compat-0-0-3-tar-gz/enum-compat-0.0.3/PKG-INFO

1.118 zstd 0.21.0

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1.119 toml 0.10.2

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.122 click 8.1.3

1.122.1 Available under license :

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```
.. _contrib:
```

```
=====  
click-contrib  
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

```
.. _click-contrib: https://github.com/click-contrib/
```

Found in path(s):

```
* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/docs/contrib.rst
```

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

Metadata-Version: 2.1

Name: click

Version: 8.1.3

Summary: Composable command line interface toolkit

Home-page: <https://palletsprojects.com/p/click/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://click.palletsprojects.com/>

Project-URL: Changes, <https://click.palletsprojects.com/changes/>
Project-URL: Source Code, <https://github.com/pallets/click/>
Project-URL: Issue Tracker, <https://github.com/pallets/click/issues/>
Project-URL: Twitter, <https://twitter.com/PalletsTeam>
Project-URL: Chat, <https://discord.gg/pallets>
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

\\$ click_

=====

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U click
```

```
.. _pip: https://pip.pypa.io/en/stable/getting-started/
```

A Simple Example

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo(f"Hello, {name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: <https://palletsprojects.com/donate>

Links

- Documentation: <https://click.palletsprojects.com/>
- Changes: <https://click.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/click/>
- Source Code: <https://github.com/pallets/click>
- Issue Tracker: <https://github.com/pallets/click/issues>
- Website: <https://palletsprojects.com/p/click>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/src/click.egg-info/PKG-INFO

* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/PKG-INFO

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[metadata]

name = click

version = attr: click.__version__

url = <https://palletsprojects.com/p/click/>

project_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://click.palletsprojects.com/>

Changes = <https://click.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/click/>

Issue Tracker = <https://github.com/pallets/click/issues/>

Twitter = <https://twitter.com/PalletsTeam>

Chat = <https://discord.gg/pallets>

license = BSD-3-Clause

license_files = LICENSE.rst

author = Armin Ronacher

author_email = armin.ronacher@active-4.com

maintainer = Pallets

maintainer_email = contact@palletsprojects.com

description = Composable command line interface toolkit

long_description = file: README.rst

long_description_content_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Intended Audience :: Developers

License :: OSI Approved :: BSD License

Operating System :: OS Independent

Programming Language :: Python

[options]

packages = find:

package_dir = = src

include_package_data = True

python_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests

filterwarnings =

error

[coverage:run]

```
branch = True
source =
click
tests
```

```
[coverage:paths]
source =
src
*/site-packages
```

```
[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/click/__init__.py: F401
```

```
[mypy]
files = src/click
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[mypy-colorama.*]
ignore_missing_imports = True
```

```
[mypy-importlib_metadata.*]
ignore_missing_imports = True
```

```
[egg_info]
tag_build =
```

tag_date = 0

Found in path(s):

* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/setup.cfg

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Found in path(s):

* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/src/click/parser.py

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Found in path(s):

* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/tests/test_formatting.py

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1.123 ruamel-yaml 0.17.16

1.123.1 Available under license :

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1.124 mako 1.2.4

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1.125 xmltodict 0.13.0

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1.126 zlib 1.2.11

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1.127 expat 2.5.0

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1.128 pydantic 1.10.9

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1.129 bcrypt 4.0.1

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1.130 pyjwt 2.7.0

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1.131 filelock 3.12.2

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1.132 pysnmpcrypto 0.0.4

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Strong crypto support for PySNMP

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The `pysnmpcrypto` library runs on Python 2.4 through 3.7 and has a dependency on either [PyCryptodomex](https://github.com/Legrandin/pycryptodome) (for Python versions 2.4-2.6 and 3.2-3.3) or [Cryptography](https://github.com/pyca/cryptography) (for Python versions 2.7 and 3.4+).`

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Download & Install

The `pysnmpcrypto` package is freely available for download from [PyPI](https://pypi.org/project/pysnmpcrypto) and [GitHub](https://github.com/etingof/pysnmpcrypto.git).`

Just run:

```
```bash
$ pip install pysnmp pysnmpcrypto
```
```

to download and install both `pysnmp` and pysnmpcrypto`.`

Documentation

The `pysnmpcrypto` library does not expose any user-intended API. Documentation and usage examples on the pysnmp` library use can be found at the [pysnmp project site](http://snmplabs.com/pysnmp/).`

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

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1.133 python-pip 23.1.2

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 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 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | 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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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

| | | | | |
|---------------|-----------|----------|------------|---------|
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.138 python-setuptools 58.1.0

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1.139 asyncssh 2.13.2

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1.141 alembic 1.10.1

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1.142 python-setuptools 8.8.0

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

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

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

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
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1.143 cryptography 38.0.4

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1.144 packaging 23.1

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