



# Open Source Used In Remote PHY (version 10.6) v10.6

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# 1.2 protobuf-to-dict 0.1.0

#### 1.2.1 Available under license:

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Metadata-Version: 1.1 Name: protobuf-to-dict

Version: 0.1.0

Summary: A teeny Python library for creating Python dicts from protocol buffers and the reverse. Useful as an

intermediate step before serialisation (e.g. to JSON).

Home-page: https://github.com/benhodgson/protobuf-to-dict

Author: Ben Hodgson

Author-email: ben@benhodgson.com

License: Public Domain
Description: UNKNOWN
Keywords: protobuf,json,dict
Platform: UNKNOWN

Classifier: Programming Language :: Python Classifier: Development Status :: 4 - Beta Classifier: Intended Audience :: Developers

Classifier: License :: Public Domain

Classifier: Operating System :: OS Independent

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

#### Found in path(s):

\*/opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-

0.1.0/src/protobuf\_to\_dict.egg-info/PKG-INFO

 $*/opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-0.1.0/PKG-INFO$ 

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

from setuptools import setup

setup(

```
name='protobuf-to-dict',
 description='A teeny Python library for creating Python dicts from '
    'protocol buffers and the reverse. Useful as an intermediate step '
    'before serialisation (e.g. to JSON).',
 version='0.1.0',
 author='Ben Hodgson',
 author email='ben@benhodgson.com',
 url='https://github.com/benhodgson/protobuf-to-dict',
 license='Public Domain',
 keywords=['protobuf', 'json', 'dict'],
 install_requires=['protobuf>=2.3.0'],
 package_dir={":'src'},
 py_modules=['protobuf_to_dict'],
 setup_requires=['protobuf>=2.3.0', 'nose>=1.0', 'coverage', 'nosexcover'],
 test_suite = 'nose.collector',
 classifiers=[
    'Programming Language :: Python',
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: Public Domain',
    'Operating System :: OS Independent',
    'Topic :: Software Development :: Libraries :: Python Modules',
 ],
)
```

Found in path(s):

\*/opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-0.1.0/setup.py

## 1.3 libxml2 2.9.10

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# 1.4 expat 2.1.0

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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 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.

GPL-Release Derived Year Owner 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** 2.0 1.6 2000 BeOpen.com no

1.6.1	1.6	2001	CNRI	yes (2	2)
2.1	2.0+1.6	5.1 2001	PSF	no	
2.0.1	2.0+1.0	5.1 2001	PSF	yes	
2.1.1	2.1+2.0	0.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2 and ab	ove 2.1	.1 200	1-now	PSF	ves

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## 1.8 zlib 1.2.11

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

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

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

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

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

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

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

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

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

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

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

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

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

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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## 1.10 glibc 2.30

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

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

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@enumerate 0

@item

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

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The modified work must itself be a software library.

#### @item

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

#### @item

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

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

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

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

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

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

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

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

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

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

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### @item

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

@item

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

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

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

## @item

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

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

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Written by: Philip Hazel Email local part: ph10

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# 1.22 pyzmq 22.2.1

# 1.22.1 Available under license:

wepoll - epoll for Windows https://github.com/piscisaureus/wepoll

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curve25519-donna:

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\*

\* curve25519-donna: Curve25519 elliptic curve, public key function

\*

\* http://code.google.com/p/curve25519-donna/

\*

\* Adam Langley <agl@imperialviolet.org>

\*

\* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

\*

- \* More information about curve25519 can be found here
- \* http://cr.yp.to/ecdh.html

\*

- \* djb's sample implementation of curve25519 is written in a special assembly
- \* language called qhasm and uses the floating point registers.

\*

- \* This is, almost, a clean room reimplementation from the curve25519 paper. It
- \* uses many of the tricks described therein. Only the crecip function is taken
- \* from the sample implementation.

\*/

# 1.24 glibc 0.6.1

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\* Small patch to fix Python CallMethod().

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\* Small optimizations to Python serialization.

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- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

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\* Heuristic detection of sub-messages when printing unknown fields in text format.

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\* Added @Override annotation to generated Java code where appropriate.

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\* Slicing support for repeated scalar fields for the Python API.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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\* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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\* Fixed initialization ordering problem in logging code.

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\* Small patch improving performance of in Python serialization.

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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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\* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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- \* Fixed detection of sched yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xlC compiler build issues
- \* Added atomicops for AIX (POWER)

## 1.26 opkg 2019-01-18

### 1.26.1 Available under license:

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## 1.27 sortedcontainers 1.4.4

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## 1.28 libnsl 1.3.0

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>

Source: https://github.com/thkukuk/libnsl

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```
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

- \* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
- \* http://www.hypermall.com/
- \* 10/1/97 commented out CFG\_PHYIE bit we don't care when the PHY

```
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
    as needed. This means that data must always be copied to create
   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   Fix is simple: make large buffers large enough to hold entire
   SDU, and leave <small_buffer_data> bytes empty at the start. Then
    copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
   buffers. This is done by 2 things:
     1) skb->destructor / skb->atm.recycle buffer
        combined, allow nicstar_free_rx_skb to be called to
        recycle large data buffers
     2) skb clone of received buffers
  See nicstar_free_rx_skb and linearize_buffer for implementation
    details.
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\*

\* M. Welsh, 6 July 1996

\*

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## 1.32 rsyslog 8.39.0

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# 1.33 gnu-readline 6.3.3

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Metadata-Version: 1.1

```
This is basically Mansours' implementation with unit tests and a build process added.
It's also on PyPi (``pip install fysom``).
Fysom is built and tested on python 2.6 to 3.3 and PyPy.
Installation
=========
From your friendly neighbourhood cheeseshop
_____
::
 pip install fysom
Developer setup
-----
This module uses `PyBuilder <a href="http://pybuilder.github.io">http://pybuilder.github.io>...
::
 sudo pip install pyb_init
 pyb-init github mriehl: fysom
Running the tests
-----
::
 pyb verify
Generating and using a setup.py
_____
::
 pyb
 cd target/dist/fysom-$VERSION
 ./setup.py bdist_rpm #build RPM
Looking at the coverage
-----
::
 pyb
 cat target/reports/coverage
```

**USAGE** 

```
Basics
 from fysom import Fysom
 fsm = Fysom({ 'initial': 'green',
           'events': [
              {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
             {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
             {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
              {'name': 'clear', 'src': 'yellow', 'dst': 'green'} ] })
... will create an
object with a method for each event:
- fsm.warn() - transition from 'green' to 'yellow'
- fsm.panic() - transition from 'yellow' to 'red'
- fsm.calm() - transition from 'red' to 'yellow'
- fsm.clear() - transition from 'yellow' to 'green'
along with the following members:
- fsm.current - contains the current state
- fsm.isstate(s) - return True if state s is the current state
- fsm.can(e) - return True if event e can be fired in the current state
- fsm.cannot(e) - return True if event s cannot be fired in the current
 state
Shorter Syntax
_____
It's possible to define event transitions as 3-tuples (event name,
source state, destination state) rather than dictionaries.
"Fysom" constructor accepts also keyword arguments "initial",
"`events", "callbacks", and "final".
This is a shorter version of the previous example::
 fsm = Fysom(initial='green',
         events=[('warn', 'green', 'yellow'),
               ('panic', 'yellow', 'red'),
               ('calm', 'red', 'yellow'),
```

('clear', 'yellow', 'green')])

#### Initialization

-----

How the state machine should initialize can depend on your application requirements, so the library provides a number of simple options.

By default, if you don't specify any initial state, the state machine will be in the 'none' state and you would need to provide an event to take it out of this state:

::

If you specify the name of your initial event (as in all the earlier examples), then an implicit 'startup' event will be created for you and fired when the state machine is constructed:

::

If your object already has a startup method, you can use a different name for the initial event:

::

Finally, if you want to wait to call the initial state transition event until a later date, you can defer it:

::

Of course, we have now come full circle, this last example pretty much functions the same as the first example in this section where you simply define your own startup event.

So you have a number of choices available to you when initializing your state machine.

You can also indicate which state should be considered final. This has no effect on the state machine, but lets you use a shorthand method is\_finished() that returns true if the state machine is in this 'final' state:

Dynamically generated event names

-----

fsm.is\_finished() # True

Sometimes you have to compute the name of an event you want to trigger on the fly. Instead of relying on `getattr` you can use the `trigger` method, which takes a string (the event name) as a parameter, followed by any arguments/keyword arguments you want to pass to the event method.

This is also arguably better if you're not sure if the event exists at all (FysomError vs. AttributeError, see below).

:

```
{'name': 'warn', 'src': 'green', 'dst': 'yellow'},
{'name': 'panic', 'src': 'yellow', 'dst': 'red'},
```

Multiple source and destination states for a single event

\_\_\_\_\_

::

This example will create an object with 2 event methods:

- fsm.eat()
- fsm.rest()

The rest event will always transition to the hungry state, while the eat event will transition to a state that is dependent on the current state.

NOTE the rest event in the above example can also be specified as multiple events with the same name if you prefer the verbose approach.

NOTE if an event can be triggered from any state, you can specify it using the '\*' wildcard, or even by omitting the src attribute from its definition:

::

NOTE if an event will not change the current state, you can specify destination using the '=' symbol. It's useful when using wildcard source or multiply sources:

::

```
fsm = Fysom({'initial': 'hungry',
```

#### Callbacks

-----

5 callbacks are available if your state machine has methods using the following naming conventions:

```
- onbefore\_event\_ - fired before the *event*
```

- onleave\\_state\\_ fired when leaving the old \*state\*
- onenter\\_state\\_ fired when entering the new \*state\*
- onreenter\state\\_ fired when reentering the old \*state\* (a reflexive transition i.e. src == dst)
- onafter\\_event\\_ fired after the \*event\*

You can affect the event in 2 ways:

- return False from an onbefore\\_event\\_ handler to cancel the event. This will raise a fysom.Canceled exception.
- return False from an onleave\state\ handler to perform an asynchronous state transition (see next section)

For convenience, the 2 most useful callbacks can be shortened:

- on \\_event\\_ - convenience shorthand for on after\\_event\\_
- on\\_state\\_ convenience shorthand for onenter\\_state\\_

In addition, a generic onchangestate() callback can be used to call a single function for all state changes.

All callbacks will be passed one argument 'e' which is an object with following attributes:

- fsm Fysom object calling the callback
- event Event name
- src Source state
- dst Destination state
- (any other keyword arguments you passed into the original event method)
- (any positional argument you passed in the original event method, in the 'args' attribute of the event)

Note that when you call an event, only one instance of 'e' argument is created and passed to all 4 callbacks. This allows you to preserve data across a state transition by storing it in 'e'. It also allows you to shoot yourself in the foot if you're not careful.

Callbacks can be specified when the state machine is first created: :: def onpanic(e): print 'panic! ' + e.msg def oncalm(e): print 'thanks to ' + e.msg + ' done by ' + e.args[0] def ongreen(e): print 'green' def onyellow(e): print 'yellow' def onred(e): print 'red' fsm = Fysom({'initial': 'green', 'events': [ {'name': 'warn', 'src': 'green', 'dst': 'yellow'}, {'name': 'panic', 'src': 'yellow', 'dst': 'red'}, {'name': 'panic', 'src': 'green', 'dst': 'red'}, {'name': 'calm', 'src': 'red', 'dst': 'yellow'}, {'name': 'clear', 'src': 'yellow', 'dst': 'green'}], 'callbacks': { 'onpanic': onpanic, 'oncalm': oncalm, 'ongreen': ongreen, 'onyellow': onyellow, 'onred': onred }}) fsm.panic(msg='killer bees') fsm.calm('bob', msg='sedatives in the honey pots') Additionally, they can be added and removed from the state machine at any time: :: def printstatechange(e): print 'event: %s, src: %s, dst: %s' % (e.event, e.src, e.dst) del fsm.ongreen del fsm.onyellow del fsm.onred fsm.onchangestate = printstatechange Asynchronous state transitions

Sometimes, you need to execute some asynchronous code during a state transition and ensure the new state is not entered until you code has completed.

A good example of this is when you run a background thread to download something as result of an event. You only want to transition into the new state after the download is complete.

You can return False from your onleave\\_state\\_ handler and the state machine will be put on hold until you are ready to trigger the transition using the transition() method.

### Found in path(s):

\*/opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/README

# 1.36 enum34 1.1.6

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\*/

# NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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Version 3.9

PLY (Python Lex-Yacc)

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

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

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

#### How to Use

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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

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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

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

#### Example

======

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

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
```

```
'LPAREN', 'RPAREN',
  )
# Tokens
t\_PLUS = r' + '
t\_MINUS = r'-'
t\_TIMES = r' \
t\_DIVIDE = r'/'
t\_EQUALS = r'='
t\_LPAREN = r' \ ('
t_RPAREN = r' \rangle
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
def t_NUMBER(t):
  r' d+'
  t.value = int(t.value)
  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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## 1.52 libevent 2.0.22

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

import sys from setuptools import setup import io

```
version = "2.1"
def main():
 python_version = sys.version_info[:2]
 if python_version < (2,6):
    raise SystemExit("Sorry, Python 2.6 or newer required")
 arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': version,
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
      'Development Status :: 5 - Production/Stable',
      'Intended Audience :: Developers',
      'Intended Audience :: System Administrators',
      'License :: OSI Approved :: BSD License',
       'Operating System :: OS Independent',
      'Programming Language :: Python',
      'Programming Language :: Python :: 2.6',
       'Programming Language:: Python:: 2.7',
      'Programming Language :: Python :: 3',
      'Programming Language:: Python:: 3.3',
       'Programming Language:: Python:: 3.4',
       'Topic :: Internet :: Name Service (DNS)',
      'Topic :: Software Development :: Libraries :: Python Modules',
      'Topic :: Utilities',
    ],
    'test_suite': 'tests',
  }
 setup(**arguments)
if __name__ == '__main__':
 main()
Found in path(s):
*/opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py
```

# 1.54 pam 1.5.1

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## 1.56 ncurses 6.2

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## 1.58 redis 4.0.14

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Files:

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include/bsd/stdlib.h

include/bsd/unistd.h

src/bsd\_getopt.c

src/err.c

src/fgetln.c

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include/bsd/sys/queue.h

include/bsd/sys/time.h

include/bsd/timeconv.h

include/bsd/vis.h

man/bitstring.3bsd

man/errc.3bsd

man/explicit\_bzero.3bsd

man/fgetln.3bsd

man/fgetwln.3bsd

man/fpurge.3bsd

man/funopen.3bsd

man/getbsize.3bsd

```
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man/nlist.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
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man/fmtcheck.3bsd

man/humanize number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

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src/stringlist.c

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man/expand number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
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src/arc4random\_unix.h
src/closefrom.c
src/getentropy\_aix.c
src/getentropy\_bsd.c
src/getentropy\_hpux.c

src/getentropy\_hurd.c

```
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src/getentropy_osx.c
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Files:

include/bsd/md5.h

src/hash/md5.c

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This code implements the MD5 message-digest algorithm.

The algorithm is due to Ron Rivest. This code was

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Files:

src/explicit\_bzero.c
src/chacha\_private.h

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Files:

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## 1.60 linenoise 1.0.0

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/\* linenoise.h -- guerrilla line editing library against the idea that a

\* line editing lib needs to be 20,000 lines of C code.

\* See linenoise.c for more information.

\* 
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### Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/linenoise\_c/linenoise.h

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OASISFormat: 0.4 Name: linenoise Version: 0.1

Synopsis: A small readline replacement

Authors: Katherine Whitlock License: BSD-3-clause Plugins: META(0.4)

Library linenoise

Path:

BuildTools: ocamlbuild

CSources: linenoise\_stubs.c, linenoise\_c/linenoise.c, linenoise\_c/linenoise.h, headers/complex\_stubs.h, headers/cstubs\_internals.h, headers/managed\_buffer\_stubs.h,headers/primitives.h, headers/raw\_pointer.h,

 $headers/type\_info\_stubs.h, headers/unsigned\_stubs.h$ 

BuildDepends: ctypes.foreign, ctypes.stubs, core, threads

Modules: Linenoise\_bindings, Linenoise

Install: true

### SourceRepository head

Type: git

Location: https://github.com/brick-lang/linenoise-ml Browser: https://github.com/brick-lang/linenoise-ml

### Found in path(s):

 $*/opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/oasis$ 

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/\* linenoise.c -- guerrilla line editing library against the idea that a

\* line editing lib needs to be 20,000 lines of C code.

\*

\* You can find the latest source code at:

\*

\* http://github.com/antirez/linenoise

\*

* Does a number of crazy assumptions that happen to be true in 99.9999% of * the 2010 UNIX computers around.
*
*
*
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*
*
* References:
* - http://invisible-island.net/xterm/ctlseqs/ctlseqs.html
* - http://www.3waylabs.com/nw/WWW/products/wizcon/vt220.html
*
* Todo list:
* - Filter bogus Ctrl+ <char> combinations.</char>
* - Win32 support
*
* Bloat:
* - History search like Ctrl+r in readline?
*
* List of escape sequences used by this program, we do everything just
* with three sequences. In order to be so cheap we may have some

```
* flickering effect with some slow terminal, but the lesser sequences
* the more compatible.
* CHA (Cursor Horizontal Absolute)
   Sequence: ESC [ n G
   Effect: moves cursor to column n
* EL (Erase Line)
* Sequence: ESC [ n K
* Effect: if n is 0 or missing, clear from cursor to end of line
* Effect: if n is 1, clear from beginning of line to cursor
* Effect: if n is 2, clear entire line
* CUF (CUrsor Forward)
* Sequence: ESC [ n C
* Effect: moves cursor forward of n chars
* When multi line mode is enabled, we also use an additional escape
* sequence. However multi line editing is disabled by default.
* CUU (Cursor Up)
* Sequence: ESC [ n A
* Effect: moves cursor up of n chars.
* CUD (Cursor Down)
* Sequence: ESC [ n B
* Effect: moves cursor down of n chars.
* The following are used to clear the screen: ESC [ H ESC [ 2 J
* This is actually composed of two sequences:
* cursorhome
   Sequence: ESC [ H
* Effect: moves the cursor to upper left corner
* ED2 (Clear entire screen)
* Sequence: ESC [ 2 J
* Effect: clear the whole screen
*/
Found in path(s):
*/opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-
gz/brick-lang-linenoise-ml-923ca3c/linenoise_c/linenoise.c
No license file was found, but licenses were detected in source scan.
* Copyright (c) 2013 Jeremy Yallop.
```

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\*/

### Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/raw\_pointer.h
- $*/opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/complex\_stubs.h$
- \* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/primitives.h
- $*/opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/type\_info\_stubs.h$
- \* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/managed\_buffer\_stubs.h
- \* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-g923ca3c-targz/brick-lang-linenoise-ml-923ca3c/headers/unsigned\_stubs.h

# 1.61 memory-profiler 0.50.0

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# 1.62 gdbm 1.11

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Version 3, 29 June 2007

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That's all there is to it!

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

From the original distribution:

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```
BSDLIB_PIC_FLAG = -fpic
image: $(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD LIB).
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
 `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <a href="mailto:dirson@debian.org">debian.org</a>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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```

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Gadi Oxman, August 1995

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

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

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

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

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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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When a "work that uses the Library" uses material from a header file

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# 1.69 cryptography 1.5.1

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# 1.70 tdb 1.44.1

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# 1.72 lua-cjson 2.1.0

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-
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/\*

\* blkidP.h - Internal interfaces for libblkid

\*

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/libubi.h

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- $*/opt/cola/permits/1549688680\_1675396934.8566017/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/probe.c$
- $*/opt/cola/permits/1549688680\_1675396934.8566017/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/probe.h$

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/blkdev.h
*/opt/cola/permits/1549688680_1675396934.8566017/0/fstools-2018-12-28-
af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-
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- \* /opt/cola/permits/1549688680\_1675396934.8566017/0/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/squashfs.c No license file was found, but licenses were detected in source scan.

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\* blkid.h - Interface for libblkid, a library to identify block devices

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- af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/libfstools.h
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- af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/volume.h

- af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/libubi-tiny.h
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- af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/ubi.c

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\* /opt/cola/permits/1549688680\_1675396934.8566017/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/superblocks.h No license file was found, but licenses were detected in source scan.

/\*

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#### Found in path(s):

\*/opt/cola/permits/1549688680\_1675396934.8566017/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/hfs.c

## 1.76 wpa-supplicant 2.7-devel

## 1.76.1 Available under license:

wpa\_supplicant and hostapd

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## 1.77 berkeley-db 4.7.25

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