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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 from	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
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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
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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.

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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libbz2.dll test program.
```

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

```
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```

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

```
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1.6 enum34 1.1.6

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1.7 json-c 0.99.8

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1.8 lua-cjson 2.1.0

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1.9 gmp 6.1.2

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1.11 libpcap 1.9.1

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1.12 libndp 1.7

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1.15 pyasn1-modules 0.0.8

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1.16 pyasn1 0.1.9

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1.17 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-1-0-0-0-g923ca3c-tar-
gz/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-tar-gz/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.

* - 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

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/*

- * 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-1-0-0-0-g923ca3c-tar-gz/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-tar-gz/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-tar-gz/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-tar-

```
gz/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-tar-
gz/brick-lang-linenoise-ml-923ca3c/headers/managed_buffer_stubs.h
*
/opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-
gz/brick-lang-linenoise-ml-923ca3c/headers/unsigned_stubs.h
```

1.18 opkg 2019-01-18

1.18.1 Available under license :

=== Contributors ===

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and anyone else who has sent patches or bug reports. If your name isn't on this list, please forgive us and send an email to a maintainer

The project owners/committers is here: <http://code.google.com/p/opkg/>

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1.19 json-c 0.14

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1.20 pycparser 2.14

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1.21 berkeley-db 4.7.25

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1.22 linux-kernel 4.9.140

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```

The hypothetical commands

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```
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```

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<signature of Ty Coon>, 1 April 1989
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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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1.27 expat 2.2.8

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1.28 libev 4.22

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1.29 psutil 5.8.0

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1.30 idna 2.1

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Found in path(s):

```
* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/LICENSE.rst
```

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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

1.31 protobuf-to-dict 0.1.0

1.31.1 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

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```
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', 'nosecover'],
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

1.32 rom 0.42.6

1.32.1 Available under license :

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1.33 pylint 1.4.4

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1.34 memory-profiler 0.50.0

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1.35 fysom 2.1.2

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```
classifiers = ['Development Status :: 5 - Production/Stable', 'Intended Audience :: Developers', 'License :: OSI  
Approved :: MIT License', 'Programming Language :: Python', 'Natural Language :: English', 'Operating System ::  
OS Independent', 'Topic :: Scientific/Engineering'],
```

Found in path(s):

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/setup.py
```

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Metadata-Version: 1.1

Name: fysom

Version: 2.1.2

Summary: pYthOn Finite State Machine

Home-page: <https://github.com/mriehl/fysom>

Author: Mansour Behabadi, Jake Gordon, Maximilien Riehl, Stefano

Author-email: mansour@oxplot.com, jake@codeincomplete.com, maximilien.riehl@gmail.com,

License: MIT

Description: UNKNOWN

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Topic :: Scientific/Engineering

Found in path(s):

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/PKG-INFO
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```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/fysom/__init__.py
```

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_state.py
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* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-  
2.1.2/test/test_garbage_collection.py
```

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-  
2.1.2/test/test_async_state_transition.py
```

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_initialization.py
*
/opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_many_to_many.py
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_same_dst.py
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_finished_state.py
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_callbacks.py
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test_wildcard.py
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```

```
.. image:: https://travis-ci.org/mriehl/fysom.png?branch=master
:alt: Travis build status image
:align: left
:target: https://travis-ci.org/mriehl/fysom
```

```
.. image:: https://coveralls.io/repos/mriehl/fysom/badge.png?branch=master
:target: https://coveralls.io/r/mriehl/fysom?branch=master
:alt: Coverage status
```

```
.. image:: https://badge.fury.io/py/fysom.png
:target: https://badge.fury.io/py/fysom
:alt: Latest PyPI version
```

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=====

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Synopsis

=====

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 <<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:

::

```
fsm = Fysom({'events': [
    {'name': 'startup', 'src': 'none', 'dst': 'green'},
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "none"
fsm.startup()
print fsm.current # "green"
```

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:

::

```
fsm
= Fysom({'initial': 'green',
        'events': [
            {'name': 'panic', 'src': 'green', 'dst': 'red'},
            {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "green"
```

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

::

```
fsm = Fysom({'initial': {'state': 'green', 'event': 'init'},
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "green"
```

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

::

```
fsm = Fysom({'initial': {'state': 'green', 'event': 'init', 'defer': True},
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "none"
fsm.init()
print fsm.current # "green"
```

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:

::

```
fsm = Fysom({'initial': 'green',
            'final': 'red',
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "green"
fsm.is_finished() # False
fsm.panic()
fsm.is_finished() # True
```

Dynamically generated event names

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).

::

```
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'} ] })

fsm.trigger('warn', msg="danger") # equivalent to fsm.warn(msg="danger")
fsm.trigger('unknown') # FysomError, event does not exist
fsm.unknown() # AttributeError, event does not exist
```

Multiple source and destination states for a single event

::

```
fsm = Fysom({'initial': 'hungry',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'rest', 'src': ['hungry', 'satisfied', 'full', 'sick'], 'dst': 'hungry'}]})
```

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:

::

```
fsm = Fysom({'initial': 'hungry',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'eat_a_lot', 'src': '*', 'dst': 'sick'},
                {'name': 'rest', 'dst': 'hungry'}]})
```

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',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'eat_a_little', 'src': '*', 'dst': '='},
                {'name': 'eat_a_little', 'src': ['full', 'satisfied'],
```

```
'dst': '='},
    {'name': 'eat_a_little', 'src': 'hungry', 'dst': '='},
    {'name': 'rest', 'dst': '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 `onafter_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.onchange = 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 distribute 0.6.21

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=====
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PLY (Python Lex-Yacc) Version 3.9

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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

Found in path(s):

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-a413a09/README.md
```

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```

Found in path(s):

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-  
a413a09/ply/lex.py
```

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-  
a413a09/ply/yacc.py
```

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```
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Found in path(s):

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-  
a413a09/ply/cpp.py
```

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```

Found in path(s):

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-  
a413a09/example/GardenSnake/GardenSnake.py
```

1.40 pyyaml 5.1.2

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1.41 protobuf 3.17.3

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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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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

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

Oleg Smolsky <oleg.smolsky@gmail.com>

- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

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

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

Alexander Melnikov <alm@sibmail.ru>

- * 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().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- * 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)

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1.42 sortedcontainers 1.4.4

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1.43 tftpy 0.6.2

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1.44 redis 6.2.6

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1.45 dropbear 2020.81

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* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/watchdog.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/instance.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/procd.h

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/log.h

*

/opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/system.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/service.h

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/preinit.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/procd.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/state.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/rcS.h

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/init.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/signal.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/utills/utills.h

*

/opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/ubus.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/watch.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/plugin/hotplug.c

* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/inittab.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/plug/hotplug.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/utills/askfirst.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/plug/coldplug.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/utills/utills.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/upgraded/upgraded.c
*
/opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/mkdev.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/early.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/watchdog.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/service.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/instance.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/service/trigger.c
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* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/init.h
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* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/preload.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/trace/preload.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/elf.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/seccomp.h
*
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/preload.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/log.h
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/trace/trace.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/elf.c
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/jail.c

1.51 wsgiref 0.1.2

1.51.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: web-sig@python.org

License: PSF or ZPL

Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML

http://peak.telecommunity.com/wsgiref_docs/

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/PKG-INFO

1.52 expat 2.5.0

1.52.1 Available under license :

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1.53 sqlite 3.40.0

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1.56 tdb 1.47.0

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```
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1.57 openssl 1.1.1t

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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it under the terms of the GNU General Public License as published by  
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```
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c'  
for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.58 ncurses 6.4

1.58.1 Available under license :

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-- \$Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp \$
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1.59 libfastjson 0.99.8

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1.60 libxml2 2.10.4

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1.61 fdisk 2.37.4

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```
NR START  END SECTORS SIZE NAME UUID
 1  32 7679  7648 3.7M   8f8378c0-01
 2 7680 16383  8704 4.3M   8f8378c0-02
 5 7936 12799  4864 2.4M
 6 12544 16127  3584 1.8M
```

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1.64 python 2.7.18

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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

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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
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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1.65 e2fsprogs 1.47.0

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Upstream-Name: e2fsprogs

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

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

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

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GNU General Public License for more details.

You should have received a copy of the GNU General Public License
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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY;  
for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider

it more useful to permit linking proprietary applications with the
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This package, the EXT2 filesystem utilities, are made available under
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and lib/e2p libraries, which are made available under the GNU Library
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available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at <http://e2fsprogs.sourceforge.net>. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program with

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3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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and
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How to Apply These Terms to Your New Programs

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
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GNU General Public License for more details.

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision  
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

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

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

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subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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Version 2, June 1991

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

Preamble

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

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

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Also, for each distributor's protection, we want to make certain

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

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and

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

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library,

or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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That's all there is to it!

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

```
all:: image
```

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

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

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_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)/$(BSD_LIB)
@-$(LD_CONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

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

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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1.66 util-linux 2.37.4

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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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it
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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
#!/usr/bin/env bash
```

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

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
    local FILE="$1"
```

```
    # Read the contents of the file into a variable
```

```
    local raw_license_text=$(<"$FILE")
```

```
    # Convert to lowercase
```

```
    local lowercase_license_text="{raw_license_text,,}"
```

```
    # Remove anything before the beginning of the license
```

```
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
    # Replace line breaks (Windows or Linux) with a single space
```

```
    local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
    # Replace multiple spaces with a single space
```

```
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
    # Strip away any non-printable, non-whitespace characters
```

```
    local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
    # Remove punctuation and special characters
```

```
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
```

```
    # Calculate the MD5 sum of the cleaned license text
```

```
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
    # Output the MD5 sum
```

```
    echo "$MD5SUM"
```

```
}
```

```
# Check if the FILE argument is provided
```

```
if [ -z "$1" ]; then
```

```
    echo "Please provide a FILE as an argument."
```

```
    exit 1
```

```
fi
```

```
# Invoke the function with the provided FILE argument
```

```
calculate_md5_sum "$1"
```

WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1uE
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

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

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

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

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1

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1.67 wpa-supPLICANT 2.9

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1.68 pcre 7.8

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Written by: Philip Hazel

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1.69 libevent 2.1.12

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1.70 libcap 2.69

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1.71 busybox 1.28.4

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1.74 python-cjson 1.2.2

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1.76 greenlet 0.4.7

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1.77 rsyslog 8.2308.0

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*

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*

/opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/jffs2reset.c

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/ubiutils-common.c
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/*

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```

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```
/*
```

```
* blkidP.h - Internal interfaces for libblkid
```

```
*
```

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/ubi-user.h
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```
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1.83 u-boot v2016.01

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-- Wolfgang Denk

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